



VERONA

INDUSTRIAL EQUIPMENT

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WorldWide Electric Corporation

Motors • Controls • Gear Reducers

WorldWide Electric Corporation is a leading manufacturer and importer of electric motors, motor controls, and gear reducers as well as the exclusive master distributor of Hyundai Electric's low-voltage motors and drives. We offer fast shipping, dependable products, and 24/7 service to our customers in oil and gas, aggregate, agriculture, hydraulics/pneumatics, and many others.

Products

- Low Voltage Electric Motors
- Variable Frequency Drives
- Soft Starters
- Definite Purpose Control Products
- Gear Reducers
- Accessories

In-Stock and Ready to Ship

We aim to make our customers more competitive by stocking the products they need and responding to their requirements with a shared sense of urgency. With \$30 million of ready-to-ship inventory at six regional US warehouses, we're ready to assist you!

WorldWide Electric Motors

- Fractional HP Motors: General Purpose, Washdown Duty Stainless Steel, Jet Pump, Permanent Magnet DC
- Farm Duty Motors
- Open Drip Proof (ODP) Motors
- Premium Efficiency Severe Duty Motors
- Premium Efficiency Explosion Proof Motors
- Definite Purpose Motors: Rock Crusher, Oil Well Pump, ODP & TEFC Close Coupled Pump, Vertical Hollow Shaft
- Motor Accessories



From Left to Right: Hyundai IEEE-841 Motor, WorldWide Electric Explosion Proof Motor, WorldWide Electric Premium Efficiency Severe Duty Motor



An Assortment of WorldWide Electric and Hyundai Variable Frequency Drives and Soft Starters

HYUNDAI Motors ELECTRIC

- Crown Triton™ Premium Efficiency Severe Duty Motors
- Crown Triton™ IEEE-841 Motors
- Crown Triton™ Explosion Proof Motors
- Hyundai Motor Accessories

Gear Reducers

- Shaft Mount Reducers
- Worm Gear Speed Reducers: Cast Iron, Aluminum, Stainless Steel
- Helical Speed Reducers: Inline, Right Angle Bevel



An Assortment of WorldWide Electric Gear Reducers

Motor Controls

- Chassis & Enclosed Variable Frequency Drives
- Chassis & Enclosed Soft Starters
- Across the Line Starters
- Contactors & Overload Relays
- Pilot Devices
- Heavy Duty Disconnect Switches



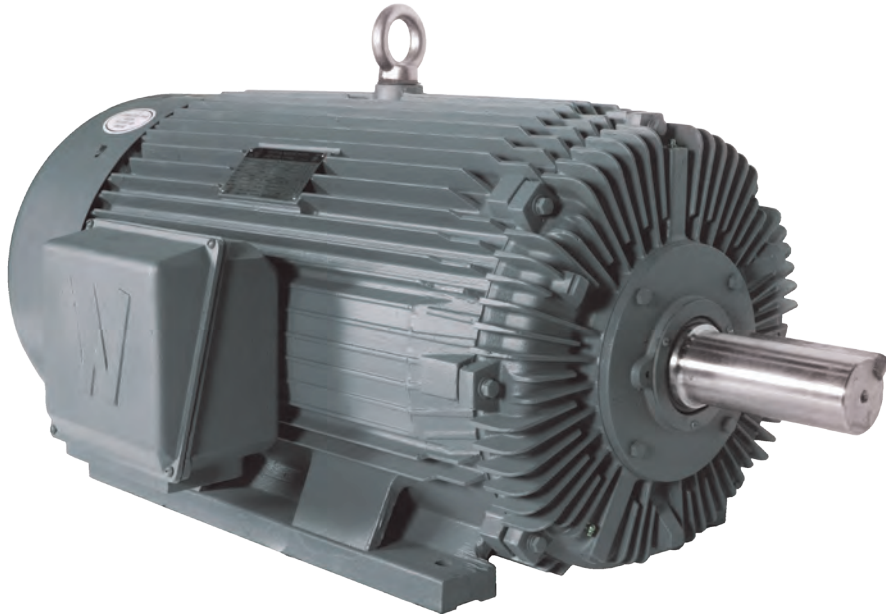
WorldWide Electric Corporation is a leading manufacturer of electric motors, motor controls, and gear reducers as well as the exclusive master distributor of Hyundai Electric's low-voltage motors and drives. Offering fast, often same-day, shipping from six regional US warehouses, WorldWide Electric takes pride in providing a competitive edge to our customers by responding to their requirements with urgency, technical expertise, and professionalism.

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ELECTRIC
MOTORS



 **HYUNDAI**
ELECTRIC



Electric Motors

Stock Products Catalog

2020-2021

WorldWide Electric's complete line of motors, including Fractional HP, Stainless, Jet Pump, Farm Duty, Premium Efficient, Explosion Proof, Rock Crusher, Oil Well Pump, Hyundai Lines and More





WorldWide Electric Motors

Proven, reliable designs

WorldWide Electric's flagship line of electric motors includes our Fractional HP, Stainless Steel, Jet Pump, Permanent Magnet DC, Farm Duty, Premium Efficient, Explosion Proof, Advanced Design Rock Crusher, Oil Well Pump, Closed Coupled Pump, and Vertical Hollow Shaft motors. We also offer Hyundai Electric Crown Triton™ Premium Efficiency, IEEE-841, Explosion Proof, and Severe Duty Large Frame Motors.

WorldWide Electric has been in the motor business for more than two decades, providing reliable and affordable electric motors, gear reducers, and motor controls. We continue to meet the needs of the most unique applications and strive to have the best customer service in the industry.

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General Purpose Motors

TEFC Enclosure ▪ C-Face with Removable Base ▪ Single-Phase ▪ 115/208-230 Volt

Product Specifications

- 1/3 - 2 HP
- 3600 and 1800 RPM
- 115/208-230 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP43 Protection
- 1.15 SF
- Class F Insulation
- C-Face with Removable Base
- Capacitor Start / Induction Run (1/3 - 1 HP)
- Capacitor Start / Capacitor Run (1.5 - 2 HP)
- for Reduced Amperage and High Torque
- Vacuum Pressure Impregnation (VPI) System
- Anti-Rust Film Applied to Rotor
- Improved Shaft Seal on Drive-End Protects Drive-End Bearing from Moisture and Contaminants



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1/3	3600	115/208-230	56C	NT13-36-56CB	\$288.76	2.7	59.5	21	
	1800	115/208-230	56C	NT13-18-56CB	\$296.74	2.6	63.0	22	
1/2	3600	115/208-230	56C	NT12-36-56CB	\$304.79	3.3	63.0	23	
	1800	115/208-230	56C	NT12-18-56CB	\$312.64	3.6	64.5	25	
3/4	3600	115/208-230	56C	NT34-36-56CB	\$313.38	4.6	66.5	27	
	1800	115/208-230	56C	NT34-18-56CB	\$340.28	5.0	67.0	29	
1	3600	115/208-230	56C	NT1-36-56CB	\$342.87	5.8	69.5	30	
	1800	115/208-230	56C	NT1-18-56CB	\$379.65	6.5	70.0	36	
1.5	3600	115/208-230	56C	NT1.5-36-56CB	\$428.60	6.5	77.0	31	
	1800	115/208-230	56C	NT1.5-18-56CB	\$479.45	7.3	77.0	37	
2	3600	115/208-230	56C	NT2-36-56CB	\$472.42	8.5	79.5	37	
	1800	115/208-230	56C	NT2-18-56CB	\$583.34	9.8	79.0	44	

Section 1: WORLDWIDE Fractional HP Motors



General Purpose Motors

TEFC Enclosure ▪ Rigid Base and C-Face ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- Rigid Base: 1/2 - 2 HP; 1800 RPM
- C-Face: 1/3 - 3 HP; 3600 and 1800 RPM
- 208-230/460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP43 Protection
- 1.15 SF
- Class F Insulation
- Premium Efficiency (1-3 HP)
- Vacuum Pressure Impregnation (VPI) System
- Anti-Rust Film Applied to Rotor
- Improved Shaft Seal on Drive-End
Protects Drive-End Bearing from
Moisture and Contaminants
- Inverter Rated, 4:1 CT / 10:1 VT
- Suitable for 50 Hz with 1.0 SF



1

WORLDWIDE
Fractional HP

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
Rigid Base									
1/2	1800	208-230/460	56	NAT12-18-56	\$279.88	0.95	70.0	19	
3/4	1800	208-230/460	56	NAT34-18-56	\$299.47	1.3	73.0	22	
1	1800	208-230/460	56	NATE1-18-56	\$370.97	1.61	85.5	35	P
1.5	1800	208-230/460	56	NATE1.5-18-56	\$437.99	2.26	86.5	43	P
2	1800	208-230/460	56	NATE2-18-56	\$521.89	2.96	86.5	49	P
C-Face ▪ Removable Base									
1/3	3600	208-230/460	56C	NAT13-36-56CB	\$248.67	0.65	60.0	18	
	1800	208-230/460	56C	NAT13-18-56CB	\$270.72	0.72	67.0	18	
1/2	3600	208-230/460	56C	NAT12-36-56CB	\$259.54	0.85	67.5	19	
	1800	208-230/460	56C	NAT12-18-56CB	\$287.50	0.95	70.0	19	
3/4	3600	208-230/460	56C	NAT34-36-56CB	\$270.32	1.2	71.5	21	
	1800	208-230/460	56C	NAT34-18-56CB	\$311.75	1.3	73.0	22	
1	3600	208-230/460	56C	NATE1-36-56CB	\$377.70	1.5	77.0	23	P
	1800	208-230/460	56C	NATE1-18-56CB	\$409.23	1.61	85.5	35	P
1.5	3600	208-230/460	56C	NATE1.5-36-56CB	\$427.67	1.98	84.0	31	P
	1800	208-230/460	56C	NATE1.5-18-56CB	\$518.68	2.26	86.5	43	P
2	3600	208-230/460	56C	NATE2-36-56CB	\$472.64	2.61	85.5	34	P
	1800	208-230/460	56C	NATE2-18-56CB	\$578.12	2.96	86.5	59	P
3	3600	208-230/460	56C	NATE3-36-56CB	\$546.73	3.69	86.5	52	P
C-Face ▪ Round Body									
1/3	1800	208-230/460	56C	NAT13-18-56CRD	\$270.72	0.72	67.0	18	
1/2	1800	208-230/460	56C	NAT12-18-56CRD	\$287.50	0.95	70.0	19	
3/4	1800	208-230/460	56C	NAT34-18-56CRD	\$311.75	1.3	73.0	22	
1	3600	208-230/460	56C	NATE1-36-56CRD	\$377.70	1.5	77.0	23	P
	1800	208-230/460	56C	NATE1-18-56CRD	\$409.23	1.61	85.5	35	P
1.5	3600	208-230/460	56C	NATE1.5-36-56CRD	\$427.67	1.98	84.0	31	P
	1800	208-230/460	56C	NATE1.5-18-56CRD	\$518.68	2.26	86.5	43	P
2	3600	208-230/460	56C	NATE2-36-56CRD	\$472.64	2.61	85.5	34	P
	1800	208-230/460	56C	NATE2-18-56CRD	\$578.12	2.96	86.5	59	P
3	3600	208-230/460	56C	NATE3-36-56CRD	\$546.73	3.69	86.5	52	P

P NATE models are premium efficiency

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Jet Pump Motors

TEFC Enclosure ▪ C-Face with Removable Base ▪ Single-Phase ▪ 115/208-230 Volt

Product Specifications

- 1/3 - 2 HP
- 3600 RPM
- 115/208-230 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP43 Protection
- 1.15 SF
- Class F Insulation
- C-Face with Removable Base
- 56J - Threaded Shaft
- 56C - Keyed Shaft
- Capacitor Start / Induction Run (1/3 - 1 HP)
- Capacitor Start / Capacitor Run (1.5 - 2 HP)
for Reduced Amperage and High Torque
- Vacuum Pressure Impregnation (VPI) System
- Anti-Rust Film Applied to Rotor
- Improved Shaft Seal on Drive-End Protects
Drive-End Bearing from Moisture and Contaminants
- Automatic Overload



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1/3	3600	115/208-230	56C	NTJ13-36-56CB	\$275.80	2.5	58.0	20	
	3600	115/208-230	56J	NTJ13-36-56JB	\$282.36	2.5	58.0	20	
1/2	3600	115/208-230	56C	NTJ12-36-56CB	\$287.81	3.3	61.0	21	
	3600	115/208-230	56J	NTJ12-36-56JB	\$294.31	3.3	61.0	21	
3/4	3600	115/208-230	56C	NTJ34-36-56CB	\$312.48	4.5	64.0	26	
	3600	115/208-230	56J	NTJ34-36-56JB	\$318.93	4.5	64.0	26	
1	3600	115/208-230	56C	NTJ1-36-56CB	\$331.11	5.7	69.0	29	
	3600	115/208-230	56J	NTJ1-36-56JB	\$337.62	5.7	69.0	29	
1.5	3600	115/208-230	56C	NTJ1.5-36-56CB	\$400.63	6.5	72.0	31	
	3600	115/208-230	56J	NTJ1.5-36-56JB	\$407.09	6.5	72.0	31	
2	3600	115/208-230	56C	NTJ2-36-56CB	\$434.29	8.6	75.0	37	
	3600	115/208-230	56J	NTJ2-36-56JB	\$440.76	8.6	75.0	37	

Jet Pump Motors

TEFC Enclosure ▪ C-Face with Removable Base ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1/3 - 3 HP
- 3600 RPM
- 208-230/460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP43 Protection
- 1.15 SF
- Class F Insulation
- Premium Efficiency (1-3 HP)
- C-Face with Removable Base
- 56J - Threaded Shaft
- 56C - Keyed Shaft
- Vacuum Pressure Impregnation (VPI) System
- Anti-Rust Film Applied to Rotor
- Improved Shaft Seal on Drive-End Protects Drive-End Bearing from Moisture and Contaminants
- Inverter rated, 4:1 CT / 10:1 VT
- Suitable for 50 Hz with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1/3	3600	208-230/460	56C	NATJ13-36-56CB	\$244.56	0.65	57.0	18	
	3600	208-230/460	56J	NATJ13-36-56JB	\$251.81	0.65	57.0	18	
1/2	3600	208-230/460	56C	NATJ12-36-56CB	\$252.83	0.85	62.0	19	
	3600	208-230/460	56J	NATJ12-36-56JB	\$260.00	0.85	62.0	19	
3/4	3600	208-230/460	56C	NATJ34-36-56CB	\$277.60	1.2	67.0	22	
	3600	208-230/460	56J	NATJ34-36-56JB	\$284.77	1.2	67.0	22	
1	3600	208-230/460	56C	NATJE1-36-56CB	\$302.13	1.5	77.0	23	P
	3600	208-230/460	56J	NATJE1-36-56JB	\$309.31	1.5	77.0	23	P
1.5	3600	208-230/460	56C	NATJE1.5-36-56CB	\$383.29	1.98	84.0	31	P
	3600	208-230/460	56J	NATJE1.5-36-56JB	\$390.52	1.98	84.0	31	P
2	3600	208-230/460	56C	NATJE2-36-56CB	\$401.53	2.61	85.5	34	P
	3600	208-230/460	56J	NATJE2-36-56JB	\$408.69	2.61	85.5	34	P
3	3600	208-230/460	56J	NATJE3-36-56JB	\$521.01	3.69	86.5	39	P

P NATE models are premium efficiency

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Stainless Steel / Washdown Duty Motors

TENV Enclosure ▪ C-Face with Feet and Round Body ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1/3 - 3/4 HP
- 1800 RPM
- 208-230/460 Volt
- Totally Enclosed Non-Ventilated (TENV) Enclosure
- IP56 Protection
- 1.15 SF
- Class F Insulation
- C-Face with Feet and Round Body (Footless)
- 304 Stainless Steel Frame, End Bracket and Junction Box
- Stainless Steel Shaft
- Anti-Rust Film Applied to Rotor
- Double Lip Seals with an Additional Shaft Slinger on the Drive-End
- O-Ring Installed on Endbells to Prevent Moisture Intrusion
- Stainless Steel Cord Connector Included
- Inverter Duty
- Suitable for 50 Hz with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
Rigid Base									
1/3	1800	208-230/460	56C	WSSNV13-18-56CB	\$680.76	0.7	82.5	28	
1/2	1800	208-230/460	56C	WSSNV12-18-56CB	\$709.52	0.8	82.5	31	
3/4	1800	208-230/460	56C	WSSNV34-18-56CB	\$757.02	1.2	82.5	33	
Round Body									
1/3	1800	208-230/460	56C	WSSNV13-18-56CRD	\$646.73	0.7	82.5	28	
1/2	1800	208-230/460	56C	WSSNV12-18-56CRD	\$674.05	0.8	82.5	31	
3/4	1800	208-230/460	56C	WSSNV34-18-56CRD	\$719.17	1.2	82.5	33	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 1: WORLDWIDE Fractional HP Motors



Stainless Steel / Washdown Duty Motors

TEFC Enclosure ▪ C-Face with Feet and Round Body ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1/3 - 2 HP
- 3600 and 1800 RPM
- 208-230/460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP56 Protection
- 1.15 SF
- Class F Insulation
- Premium Efficiency (1-2 HP)
- C-Face with Feet and Round Body (Footless)
- 304 Stainless Steel Frame, End Bracket and Junction Box
- Stainless Steel Shaft
- Anti-Rust Film Applied to Rotor
- Double Lip Seals on Both Ends of the Motor with an Additional Shaft Slinger on the Drive-End
- O-Ring Installed on Endbells to Prevent Moisture Intrusion
- Stainless Steel Cord Connector Included
- Inverter Duty
- Suitable for 50 Hz with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
Rigid Base									
1/3	1800	208-230/460	56C	WSS13-18-56CB	\$639.92	0.7	82.5	28	
1/2	3600	208-230/460	56C	WSS12-36-56CB	\$659.90	0.9	77.0	29	
	1800	208-230/460	56C	NAWSS12-18-56CB	\$743.90	0.8	82.5	31	
3/4	3600	208-230/460	56C	WSS34-36-56CB	\$683.41	1.2	73.0	33	
	1800	208-230/460	56C	NAWSS34-18-56CB	\$765.32	1.2	82.5	33	
1	1800	208-230/460	56C	NAWSSE1-18-56CB	\$904.50	1.56	85.5	44	P
1.5	1800	208-230/460	56C	NAWSSE1.5-18-56CB	\$1,001.58	2.27	86.5	58	P
2	1800	208-230/460	56C	NAWSSE2-18-56CB	\$1,041.59	2.97	86.5	64	P
Round Body									
1/3	1800	208-230/460	56C	WSS13-18-56CRD	\$607.92	0.7	82.5	28	
1/2	1800	208-230/460	56C	WSS12-18-56CRD	\$633.61	0.8	82.5	31	
3/4	1800	208-230/460	56C	WSS34-18-56CRD	\$676.03	1.2	82.5	33	
1	1800	208-230/460	56C	NAWSSE1-18-56CRD	\$943.17	1.56	85.5	44	P
1.5	1800	208-230/460	56C	NAWSSE1.5-18-56CRD	\$1,047.07	2.27	86.5	58	P
2	1800	208-230/460	56C	NAWSSE2-18-56CRD	\$1,089.84	2.97	86.5	64	P

P NAWSSE models are premium efficiency

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 1: WORLDWIDE Fractional HP Motors



Permanent Magnet DC Motors

TENV / TEFC Enclosure ■ C-Face with Removable Base ■ 90, 180, 12 and 24 Volt

Product Specifications

- 1/4 - 2 HP
- 1800 RPM
- 90, 180, 12 and 24 Volt
- Totally Enclosed Non-Ventilated (TENV) Enclosure (1/4 - 1/2 HP)
- Totally Enclosed Fan Cooled (TEFC) Enclosure (3/4 - 2 HP)
- IP54 Protection
- 1.0 SF
- Class F Insulation
- C-Face with Removable Base
- 20:1 Speed Range at Constant Torque
- High Starting Torque
- 12 Volt and 24 Volt Models Used in Applications Where Low Voltage DC Power is Supplied by Batteries or Generators



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
90 Volt and 180 Volt									
1/4	1800	90	56C	WPMDC14-18-90V-56CB	\$312.63	2.9	80.0	17	X
1/3	1800	90	56C	WPMDC13-18-90V-56CB	\$334.19	3.5	82.0	19	X
	1800	180	56C	WPMDC13-18-180V-56CB	\$330.60	1.8	82.0	19	X
1/2	1800	90	56C	WPMDC12-18-90V-56CB	\$427.62	5.2	82.0	22	X
	1800	180	56C	WPMDC12-18-180V-56CB	\$424.07	2.6	82.0	22	X
3/4	1800	90	56C	WPMDC34-18-90V-56CB	\$485.87	7.8	82.0	28	X
	1800	180	56C	WPMDC34-18-180V-56CB	\$481.53	3.9	82.0	28	X
1	1800	90	56C	WPMDC1-18-90V-56CB	\$543.33	10.4	82.0	32	X
	1800	180	56C	WPMDC1-18-180V-56CB	\$539.06	5.2	82.0	32	X
1.5	1800	90	56C	WPMDC1.5-18-90V-56CB	\$587.13	15.4	83.0	38	X
	1800	180	56C	WPMDC1.5-18-180V-56CB	\$582.11	7.7	83.0	38	X
	1800	180	145TC	WPMDC1.5-18-180V-145TCB	\$871.04	7.7	80.0	47	X
2	1800	180	56C	WPMDC2-18-180V-56CB	\$931.39	9.8	85.0	65	X
	1800	180	145TC	WPMDC2-18-180V-145TCB	\$1,220.33	9.8	80.0	65	X
12 Volt and 24 Volt									
1/3	1800	12	56C	WPMDC13-18-12V-56CB	\$398.90	26.4	78.0	19	
	1800	24	56C	WPMDC13-18-24V-56CB	\$395.32	13.2	78.0	19	
1/2	1800	12	56C	WPMDC12-18-12V-56CB	\$470.79	40.0	78.0	22	
	1800	24	56C	WPMDC12-18-24V-56CB	\$467.87	20.0	78.0	22	
3/4	1800	12	56C	WPMDC34-18-12V-56CB	\$533.26	61.2	75.0	28	
	1800	24	56C	WPMDC34-18-24V-56CB	\$530.35	30.6	75.0	28	
1	3600	12	56C	WPMDC1-36-12V-56CB	\$588.61	82.2	75.0	26	
	1800	12	56C	WPMDC1-18-12V-56CB	\$593.64	82.2	75.0	33	
	1800	24	56C	WPMDC1-18-24V-56CB	\$590.73	41.1	75.0	33	
1.5	1800	24	56C	WPMDC1.5-18-24V-56CB	\$655.45	62.5	76.0	39	

X Extra set of brushes and brush springs included

Permanent Magnet DC Motors Variable Speed DC Controls

Product Specifications

- Dual Voltage - 120/240 VAC, 50/60 Hz
- Adjustable Horsepower Settings
- Barrier Terminal Strip
- Packaged Bridge Supply (Fullwave)
- 1% Speed Regulation with Armature Voltage Feedback; $\pm 1/2\%$ with Tach Feedback
- Adjustable Minimum Speed (0-30% of max.)
- Adjustable Maximum Speed (66-110% of base)
- Adjustable IR Compensation
- Adjustable Linear Acceleration (0.5-8 sec.)
- Adjustable Current Limit to 15 Amps
- Line Voltage Compensation
- 5K Ohm Speed Potentiometer with Leads, Knob and Dial Included
- Power On / Off Switch
- 50:1 Speed Range
- Overload Capacity: 150% for One Minute
- Transient Voltage Protection
- Voltage Following Mode or DC Tachometer Follower by Supplying Underground Analog Input Signal (0-12 VDC)
- DC Tachometer Feedback (6 V at Base Speed)
- Inhibit Circuit - Permits Start and Stop Without Breaking AC Lines
- Remote Start/Stop via Pot Circuit or Inhibit Circuit
- Shunt Field Supply Provided (1 Amp Max.; 100 V for 120 VAC; 200 V for 240 VAC Input)
- AC Line Fuse
- Rated NEMA 4/12 with Threaded Conduit Holes



1

WORLDWIDE
Fractional HP

Single-Phase Input	Output	HP Range	Model Number	List Price
Non-Reversing (ON / OFF)				
120 VAC	0-90 VDC	1/8 - 1.0	WDCCONT	\$465.35
240 VAC	0-180 VDC	1/4 - 2.0	WDCCONT	\$465.35
Reversing (FORWARD / OFF / REVERSE)				
120 VAC	0-90 VDC	1/8 - 1.0	WDCCONTREV	\$706.37
240 VAC	0-180 VDC	1/4 - 2.0	WDCCONTREV	\$706.37

Fractional Farm Duty Motors

TEFC Enclosure ▪ Rigid Base ▪ Single-Phase ▪ 115/230 Volt

Product Specifications

- 1/3-2 HP
- 1800 RPM
- 115/230 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP54 Protection
- High Torque
- 1.15 SF
- Class F Insulation
- Rigid Base
- All Motors Have Double Punched Feet (56H)
- Vacuum Pressure Impregnation (VPI) System
- Anti-Rust Film Applied to Rotor
- Capacitor Start / Induction Run (1/3-1 HP)
- Capacitor Start / Capacitor Run (1.5-2 HP)
for Reduced Amperage and High Torque
- With Manual Overload
- Improved Shaft Seal on Drive-End Protects
Drive-End Bearing from Moisture and Contaminants



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1/3	1800	115/230	56	FM13-18-56	\$327.77	5.2	63.0	22	
1/2	1800	115/230	56	FM12-18-56	\$337.42	7.2	64.5	25	
3/4	1800	115/230	56	FM34-18-56	\$394.91	10.0	67.0	29	
1	1800	115/230	56	FM1-18-56	\$412.38	13.0	70.0	36	
1.5	1800	115/230	56H	FM1.5-18-56H	\$489.27	14.5	77.0	37	
2	1800	115/230	56HZ	FM2-18-56HZ	\$590.61	19.6	79.0	45	H Z

H Suitable for mounting in either 56, 143T or 145T mounting dimensions
Z Motor has 7/8" diameter shaft

Section 2: WORLDWIDE Farm Duty Motors



Integral Farm Duty Motors

TEFC Enclosure ▪ Rigid Base and C-Face ▪ Single-Phase ▪ 208-230 Volt

Product Specifications

- 2-10 HP
- 1800 RPM
- 208-230 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.15 SF
- Class F Insulation
- Rigid Base and C-Face with Feet
- With Manual Overload
- Shaft Seals on Both Ends of the Motor



2

WORLDWIDE
Farm Duty

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
Rigid Base									
2	1800	208-230	145T	FD2-18-145T	\$635.96	7.8	85.6	54	
2	1800	208-230	182T	FD2-18-182T	\$705.32	8.5	84.0	54	
3	1800	208-230	184T	FD3-18-184T	\$839.26	12.5	84.4	76	
5	1800	208-230	184T	FD5-18-184T	\$989.60	20.2	86.4	101	
7.5	1800	208-230	215T	FD7.5-18-215T	\$1,523.48	28.7	86.6	134	
7.5	1800	208-230	215TZ	FD7.5-18-215TZ	\$1,523.48	28.7	86.6	134	Z
10	1800	208-230	215T	FD10-18-215T	\$1,775.70	38.8	87.5	149	
C-Face									
2	1800	208-230	145TC	FD2-18-145TC	\$697.98	8.5	84.0	54	
3	1800	208-230	184TC	FD3-18-184TC	\$874.23	12.5	84.4	76	
5	1800	208-230	184TC	FD5-18-184TC	\$1,030.84	20.2	86.4	101	
7.5	1800	208-230	215TC	FD7.5-18-215TC	\$1,586.96	28.7	86.6	134	
10	1800	208-230	215TC	FD10-18-215TC	\$1,849.68	38.8	87.5	149	

FD Motor C-Flange Kits

Frame Size	Model Number	List Price
145T	FD140TC	\$121.73
182T / 184T	FD180TC	\$157.56
215T	FD210TC	\$217.56

Z Motor has 1-1/8" diameter shaft

Premium Efficient Stainless Steel Motors

TEFC Enclosure ▪ C-Face ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1/3-20 HP, 3600 and 1800 RPM
- 1/2-5 HP, 1200 RPM
- 208-230/460 volt, 60 Hz
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP66 Protection
- 1.15 SF
- Class F Insulation with Class B Temperature Rise
- C-Face with Feet and Round Body (Footless)
- Premium Efficiency (EISA Compliant)
- NEMA Design B
- Continuous Duty
- 304 Stainless Steel Frame, End Bracket, Junction Box, and Hardware
- Stainless Steel Shaft and Key
- F1 Junction Box Location
- Lip Seal on DE and ODE
- Round Welded Junction Box with Epoxy Potted Leads
- Double Sealed Bearings Pre-Packed with Mobil Polyrex EM Grease
- Inverter Duty – 10:1 Constant Torque (CT) / 20:1 Variable Torque (VT)
- CSA Class 1 Division 2 Groups A, B, C, D – Temperature Code T2B
- Ambient -20°C to +40°C, Altitude up to 3300 Feet Above Sea Level (FASL)
- Bi-directional Rotation
- In Accordance with NEMA, CSA, UL, and CE



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
C-Face with Feet									
1/3	3600	208-230/460	56C	SSPE13-36-56C	\$662.32	0.55	72.0	26	
	1800	208-230/460	56C	SSPE13-18-56C	\$687.53	0.6	74.0	28	
1/2	3600	208-230/460	56C	SSPE12-36-56C	\$684.04	0.75	74.0	29	
	1800	208-230/460	56C	SSPE12-18-56C	\$702.72	0.8	78.5	30	
	1200	208-230/460	56C	SSPE12-12-56C	\$800.98	0.9	75.5	30	
	3600	208-230/460	56C	SSPE34-36-56C	\$787.19	1.1	77.0	33	
3/4	1800	208-230/460	56C	SSPE34-18-56C	\$760.04	1.2	81.5	33	
	1200	208-230/460	56C	SSPE34-12-56C	\$867.72	1.85	81.5	35	
	1200	208-230/460	143TC	SSPE34-12-143TC	\$912.05	1.85	81.5	35	
	3600	208-230/460	56C	SSPE1-36-56C	\$868.62	1.4	77.0	35	
1	1800	208-230/460	56C	SSPE1-18-56C	\$868.62	1.45	85.5	36	
	1800	208-230/460	143TC	SSPE1-18-143TC	\$895.76	1.45	85.5	36	
	1200	208-230/460	145TC	SSPE1-12-145TC	\$1,027.51	2.0	82.5	42	
	3600	208-230/460	56C	SSPE1.5-36-56C	\$950.05	2.0	84.0	39	
1.5	3600	208-230/460	143TC	SSPE1.5-36-143TC	\$977.20	2.0	84.0	39	
	1800	208-230/460	56C	SSPE1.5-18-56C	\$977.20	2.0	86.5	42	
	1800	208-230/460	145TC	SSPE1.5-18-145TC	\$1,004.34	2.0	86.5	42	
	1200	208-230/460	182TC	SSPE1.5-12-182TC	\$1,744.79	2.45	87.5	82	
	3600	208-230/460	56C	SSPE2-36-56C	\$1,031.48	2.4	85.5	46	
2	3600	208-230/460	145TC	SSPE2-36-145TC	\$1,064.06	2.4	85.5	46	
	1800	208-230/460	56C	SSPE2-18-56C	\$1,058.63	3.0	86.5	51	
	1800	208-230/460	145TC	SSPE2-18-145TC	\$1,085.77	3.0	86.5	51	
	1200	208-230/460	184TC	SSPE2-12-184TC	\$1,900.89	3.05	88.5	98	
	3600	208-230/460	182TC	SSPE3-36-182TC	\$2,114.54	4.05	86.5	81	
3	1800	208-230/460	182TC	SSPE3-18-182TC	\$2,140.33	4.0	89.5	81	
	1200	208-230/460	213TC	SSPE3-12-213TC	\$2,974.95	4.6	89.5	170	
	3600	208-230/460	184TC	SSPE5-36-184TC	\$2,320.84	6.1	88.5	95	
5	1800	208-230/460	184TC	SSPE5-18-184TC	\$2,398.20	6.25	89.5	100	
	1200	208-230/460	215TC	SSPE5-12-215TC	\$3,500.69	7.0	89.5	200	
	3600	208-230/460	213TC	SSPE7.5-36-213TC	\$3,507.05	9.5	89.5	155	
7.5	1800	208-230/460	213TC	SSPE7.5-18-213TC	\$3,403.90	9.3	91.7	180	
	3600	208-230/460	215TC	SSPE10-36-215TC	\$3,713.34	12.2	90.2	170	
10	1800	208-230/460	215TC	SSPE10-18-215TC	\$3,713.34	12.2	91.7	210	

Section 3: Premium Efficient Stainless Steel Motors



Premium Efficient Stainless Steel Motors

TEFC Enclosure ▪ C-Face ▪ Three-Phase ▪ 208-230/460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
15	3600	208-230/460	254TC	SSPE15-36-254TC	\$8,076.72	18.5	91.0	363	
	1800	208-230/460	254TC	SSPE15-18-254TC	\$8,076.72	18.5	92.4	370	
20	3600	208-230/460	256TC	SSPE20-36-256TC	\$8,810.98	23.0	91.0	422	
	1800	208-230/460	256TC	SSPE20-18-256TC	\$8,794.76	24.5	93.0	436	
C-Face Round Body (Footless)									
1/3	3600	208-230/460	56CRD	SSPE13-36-56CRD	\$635.18	0.55	74.0	25	
	1800	208-230/460	56CRD	SSPE13-18-56CRD	\$657.15	0.6	82.5	27	
1/2	3600	208-230/460	56CRD	SSPE12-36-56CRD	\$656.89	0.75	77.0	28	
	1800	208-230/460	56CRD	SSPE12-18-56CRD	\$675.41	0.8	82.5	29	
	1200	208-230/460	56CRD	SSPE12-12-56CRD	\$744.01	0.9	80.0	29	
3/4	3600	208-230/460	56CRD	SSPE34-36-56CRD	\$760.04	1.1	80.0	32	
	1800	208-230/460	56CRD	SSPE34-18-56CRD	\$727.47	1.2	82.5	32	
	1200	208-230/460	143TCRD	SSPE34-12-143TCRD	\$879.48	1.85	81.5	34	
	1200	208-230/460	56CRD	SSPE34-12-56CRD	\$834.39	1.85	81.5	34	
1	3600	208-230/460	56CRD	SSPE1-36-56CRD	\$841.47	1.4	80.0	34	
	1800	208-230/460	143TCRD	SSPE1-18-143TCRD	\$863.19	1.45	85.5	35	
	1800	208-230/460	56CRD	SSPE1-18-56CRD	\$836.05	1.45	85.5	35	
	1200	208-230/460	145TCRD	SSPE1-12-145TCRD	\$992.12	2.0	82.5	41	
1.5	3600	208-230/460	143TCRD	SSPE1.5-36-143TCRD	\$950.05	2.0	86.5	38	
	3600	208-230/460	56CRD	SSPE1.5-36-56CRD	\$922.91	2.0	84.0	38	
	1800	208-230/460	145TCRD	SSPE1.5-18-145TCRD	\$966.34	2.0	86.5	41	
	1800	208-230/460	56CRD	SSPE1.5-18-56CRD	\$944.62	2.0	86.5	41	
	1200	208-230/460	182TCRD	SSPE1.5-12-182TCRD	\$1,675.66	2.45	87.5	81	
2	3600	208-230/460	145TCRD	SSPE2-36-145TCRD	\$1,031.48	2.4	85.5	45	
	3600	208-230/460	56CRD	SSPE2-36-56CRD	\$998.91	2.4	85.5	45	
	1800	208-230/460	145TCRD	SSPE2-18-145TCRD	\$1,053.20	3.0	86.5	50	
	1800	208-230/460	56CRD	SSPE2-18-56CRD	\$1,026.06	3.0	86.5	50	
	1200	208-230/460	184TCRD	SSPE2-12-184TCRD	\$1,831.75	3.05	88.5	97	
3	3600	208-230/460	182TCRD	SSPE3-36-182TCRD	\$2,037.18	4.05	86.5	80	
	1800	208-230/460	182TCRD	SSPE3-18-182TCRD	\$2,062.97	4.0	89.5	80	
	1200	208-230/460	213TCRD	SSPE3-12-213TCRD	\$2,869.71	4.6	89.5	169	
5	3600	208-230/460	184TCRD	SSPE5-36-184TCRD	\$2,243.48	6.1	88.5	94	
	1800	208-230/460	184TCRD	SSPE5-18-184TCRD	\$2,320.84	6.25	89.5	99	
	1200	208-230/460	215TCRD	SSPE5-12-215TCRD	\$3,399.69	7.0	89.5	199	
7.5	3600	208-230/460	213TCRD	SSPE7.5-36-213TCRD	\$3,403.90	9.5	89.5	154	
	1800	208-230/460	213TCRD	SSPE7.5-18-213TCRD	\$3,409.90	9.3	91.7	179	
10	3600	208-230/460	215TCRD	SSPE10-36-215TCRD	\$3,610.20	12.2	90.2	169	
	1800	208-230/460	215TCRD	SSPE10-18-215TCRD	\$3,610.20	12.2	91.7	209	
15	3600	208-230/460	254TCRD	SSPE15-36-254TCRD	\$7,709.59	18.5	91.0	361	
	1800	208-230/460	254TCRD	SSPE15-18-254TCRD	\$7,709.59	18.5	92.4	368	
20	3600	208-230/460	256TCRD	SSPE20-36-256TCRD	\$8,443.85	23.0	91.0	420	
	1800	208-230/460	256TCRD	SSPE20-18-256TCRD	\$8,443.85	24.5	93.0	434	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 4: WORLDWIDE Open Drip Proof (ODP) Motors

Open Drip Proof (ODP) Motors

ODP Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1/2-125 HP
- 3600, 1800, 1200 RPM
- 208-230/460 Volt, 60 Hz
- 190/380 Volt, 50 Hz
- Open Drip Proof (ODP) Enclosure
 - Rolled Steel Frame (1/2-50 HP)
 - Cast Iron Frame (60-125 HP)
- IP23 Protection
- 1.15 SF (1.0 SF for 50 Hz Applications)
- Class F Insulation
- Premium Efficiency
- Rigid Base (56C-Face with Removable Base)
- Class B Temperature Rise
- Inverter Duty, 10:1 CT / 20:1 VT (1.0 SF)
- Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31
- Pre-Drilled and Tapped Drive Endbells on 143T Frame and Up to Accept Inpro® Current Diverter Rings; No Machining Required, Simple and Easy Installation
- 254T and larger are suitable for F1 to F2 conversion
- Exclusive Double Vacuum Pressure Impregnation (VPI) Insulation System
- Double Drilled Feet to Accommodate Mounting Flexibility (143T-404T)



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1/2	3600	208-230/460	56C	ODP12-36-56CB	\$312.47	0.73	73.4	22	1
	1800	208-230/460	56C	ODP12-18-56CB	\$338.11	0.95	78.2	27	1
3/4	3600	208-230/460	56C	ODP34-36-56CB	\$332.64	0.98	76.8	27	1
	1800	208-230/460	56C	ODP34-18-56CB	\$358.93	1.1	81.1	27	1
1	3600	208-230/460	143T	ODP1-36-143T	\$418.01	1.35	77.0	29	
	1800	208-230/460	143T	ODP1-18-143T	\$369.70	1.3	85.5	34	
	1800	208-230/460	143T	ODP1-18-143T-F2	\$369.70	1.3	85.5	34	F2
	1800	208-230/460	143T	ODP1-18-143T-GR	\$514.70	1.3	85.5	34	GR
	1200	208-230/460	145T	ODP1-12-145T	\$476.23	1.7	82.5	41	
1.5	3600	208-230/460	143T	ODP1.5-36-143T	\$488.76	1.9	84.0	32	
	1800	208-230/460	145T	ODP1.5-18-145T	\$459.93	2.1	86.5	35	
	1800	208-230/460	145T	ODP1.5-18-145T-F2	\$459.93	2.1	86.5	35	F2
	1800	208-230/460	145T	ODP1.5-18-145T-GR	\$604.93	2.1	86.5	35	GR
	1200	208-230/460	182T	ODP1.5-12-182T	\$598.34	1.8	86.5	65	
2	3600	208-230/460	145T	ODP2-36-145T	\$550.71	2.5	85.5	35	
	1800	208-230/460	145T	ODP2-18-145T	\$487.83	2.7	86.5	39	
	1800	208-230/460	145T	ODP2-18-145T-F2	\$487.83	2.7	86.5	39	F2
	1800	208-230/460	145T	ODP2-18-145T-GR	\$632.83	2.7	86.5	39	GR
	1200	208-230/460	184T	ODP2-12-184T	\$737.28	3.5	87.5	76	
3	3600	208-230/460	145T	ODP3-36-145T	\$589.03	3.6	85.5	40	
	1800	208-230/460	182T	ODP3-18-182T	\$587.38	3.8	89.5	69	
	1800	208-230/460	182T	ODP3-18-182T-F2	\$587.38	3.8	89.5	69	F2
	1800	208-230/460	182T	ODP3-18-182T-GR	\$761.38	3.8	89.5	69	GR
	1200	208-230/460	213T	ODP3-12-213T	\$1,216.38	4.3	88.5	120	
5	3600	208-230/460	182T	ODP5-36-182T	\$677.59	5.9	86.5	65	
	1800	208-230/460	184T	ODP5-18-184T	\$701.02	6.2	89.5	92	
	1800	208-230/460	184T	ODP5-18-184T-F2	\$701.02	6.2	89.5	92	F2
	1800	208-230/460	184T	ODP5-18-184T-GR	\$875.02	6.2	89.5	92	GR
	1200	208-230/460	215T	ODP5-12-215T	\$1,373.40	6.5	89.5	145	
7.5	3600	208-230/460	184T	ODP7.5-36-184T	\$957.37	8.6	88.5	79	
	1800	208-230/460	213T	ODP7.5-18-213T	\$952.32	9.4	91.0	141	
	1800	208-230/460	213T	ODP7.5-18-213T-F2	\$952.32	9.4	91.0	141	F2
	1800	208-230/460	213T	ODP7.5-18-213T-GR	\$1,157.32	9.4	91.0	141	GR
	1200	208-230/460	254T	ODP7.5-12-254T	\$1,706.57	9.7	90.2	185	FC
10	3600	208-230/460	213T	ODP10-36-213T	\$1,109.89	11.8	89.5	151	
	1800	208-230/460	215T	ODP10-18-215T	\$1,136.53	12.2	91.7	156	
	1800	208-230/460	215T	ODP10-18-215T-F2	\$1,136.53	12.2	91.7	156	F2
	1800	208-230/460	215T	ODP10-18-215T-GR	\$1,341.53	12.2	91.7	156	GR
	1200	208-230/460	256T	ODP10-12-256T	\$1,951.67	13.1	91.7	240	
15	3600	208-230/460	215T	ODP15-36-215T	\$1,448.69	16.9	90.2	142	
	1800	208-230/460	254T	ODP15-18-254T	\$1,554.97	17.1	93.0	215	FC
	1800	208-230/460	254T	ODP15-18-254T-GR	\$1,790.97	17.1	93.0	215	FC GR
	1200	208-230/460	284T	ODP15-12-284T	\$2,635.96	18.3	91.7	331	FC

Section 4: WORLDWIDE Open Drip Proof (ODP) Motors



Open Drip Proof (ODP) Motors (cont.)

ODP Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
20	3600	208-230/460	254T	ODP20-36-254T	\$1,838.90	22.1	91.0	247	FC
	1800	208-230/460	256T	ODP20-18-256T	\$1,905.56	22.5	93.0	261	FC
	1800	208-230/460	256T	ODP20-18-256T-GR	\$2,141.56	22.5	93.0	261	FC GR
	1200	208-230/460	286T	ODP20-12-286T	\$3,105.28	25.5	92.4	330	FC
25	3600	208-230/460	256T	ODP25-36-256T	\$2,238.38	27.0	91.7	270	FC
	1800	208-230/460	284T	ODP25-18-284T	\$2,318.15	30.0	93.6	300	FC
	1800	208-230/460	284T	ODP25-18-284T-GR	\$2,582.15	30.0	93.6	300	FC GR
	1200	208-230/460	324T	ODP25-12-324T	\$3,940.19	30.8	93.0	440	FC
30	3600	208-230/460	284TS	ODP30-36-284TS	\$2,673.67	33.2	91.7	329	FC
	1800	208-230/460	286T	ODP30-18-286T	\$2,643.51	35.9	94.1	330	FC
	1800	208-230/460	286T	ODP30-18-286T-GR	\$2,907.51	35.9	94.1	330	FC GR
	1200	208-230/460	326T	ODP30-12-326T	\$4,138.50	37.0	93.6	470	FC
40	3600	208-230/460	286TS	ODP40-36-286TS	\$3,409.77	45.4	92.4	340	FC
	1800	208-230/460	324T	ODP40-18-324T	\$3,454.54	47.9	94.1	440	FC
	1800	208-230/460	324T	ODP40-18-324T-GR	\$3,756.54	47.9	94.1	440	FC GR
	1200	208-230/460	364T	ODP40-12-364T	\$4,930.15	46.7	94.1	706	FC
50	3600	208-230/460	324TS	ODP50-36-324TS	\$4,123.56	56.1	93.0	418	FC
	1800	208-230/460	326T	ODP50-18-326T	\$3,984.09	58.8	94.5	470	FC
	1800	208-230/460	326T	ODP50-18-326T-GR	\$4,286.09	58.8	94.5	470	FC GR
	1200	208-230/460	365T	ODP50-12-365T	\$5,610.46	57.6	94.1	744	FC
60	3600	208-230/460	326TS	ODP60-36-326TS	\$4,800.35	67.6	93.6	455	FC
	1800	208-230/460	364T	ODP60-18-364T	\$4,885.07	70.9	95.0	718	FC
	1800	208-230/460	364TS	ODP60-18-364TS	\$4,885.07	70.9	95.0	718	FC
75	3600	208-230/460	364TS	ODP75-36-364TS	\$5,340.60	83.3	93.6	724	FC
	1800	208-230/460	365T	ODP75-18-365T	\$5,694.80	86.3	95.0	773	FC
	1800	208-230/460	365TS	ODP75-18-365TS	\$5,694.80	86.3	95.0	773	FC
100	3600	208-230/460	365TS	ODP100-36-365TS	\$6,307.52	111.5	93.6	817	FC
	1800	208-230/460	404T	ODP100-18-404T	\$7,422.25	115.3	95.4	1043	FC
	1800	208-230/460	404TS	ODP100-18-404TS	\$7,422.25	115.3	95.4	1043	FC
125	3600	208-230/460	404TS	ODP125-36-404TS	\$8,950.00	128.8	94.1	1089	FC
	1800	208-230/460	405T	ODP125-18-405T	\$9,235.00	136.2	95.4	1085	FC

Inpro® Current Diverter Rings

For use on WorldWide Electric Motors

Model Number	Frame Size	List Price
CDR-180T	182T / 184T	\$341.62
CDR-210T	213T / 215T	\$422.95
CDR-250T/280TS	254T / 256T / 284TS / 286TS	\$496.16
CDR-280T/320TS/360TS	284T / 286T / 324TS / 326TS / 364TS / 365TS	\$569.37
CDR-320T/400TS	324T / 326T / 404TS	\$650.71
CDR-360T/440TS	364T / 365T	\$723.90
CDR-400T	404T	\$878.45

WorldWide Electric Grounding Rings

Model Number	Frame Size	List Price
GR-140	143/145T	\$111.00
GR-180	182/184T	\$140.00
GR-210	213/215T	\$162.00
GR-250/280TS	254/256T/284/286T	\$191.00
GR-280/320TS/360TS	284/286T/324/326TS/364/365TS	\$220.00
GR-320/400TS	324/326T/404/405TS	\$255.00
GR-360/440TS	364/365T/444/445TS	\$305.00

ODP Motor C-Flange Kits

Model Number	Frame Size	List Price
ODP56C	56	\$27.65
ODP140TC	143T / 145T	\$69.85
ODP180TC	182T / 184T	\$75.22
ODP210TC	213T / 215T	\$170.35
ODP250TC	254T / 256T	\$188.05
ODP280TC	284T / 286T	\$227.88
ODP320TC	324T / 326T	\$277.65

- 1 56C-face removable base
- F2 Factory F2 mount
- FC F1/F2 convertible
- GR Factory installed grounding rings (WWE brand)

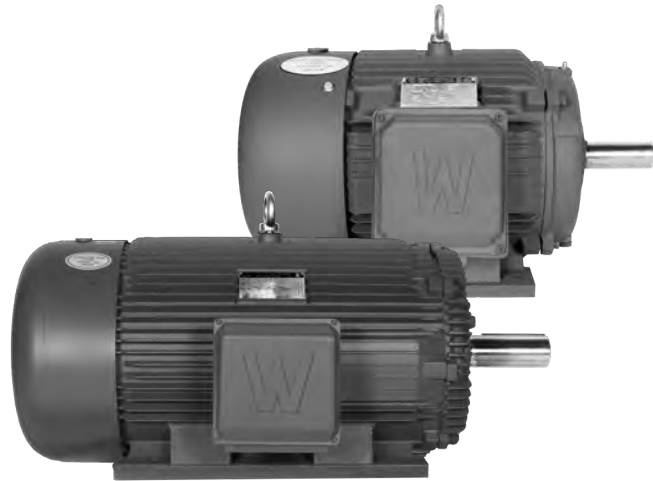
When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Premium Efficient Severe Duty Motors

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 1-500 HP
- 3600, 1800, 1200 and 900 RPM
- 208-230/460 Volt, 60 Hz
- 460 Volt, 60 Hz (449T-586/7 Frame)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.25 SF (1-200 HP)
- 1.15 SF (250-500 HP)
- Class F Insulation
- Rigid Base
- Premium Efficiency
- Inverter Duty, 10:1 CT / 20:1 VT at 1.0 SF (1-400 HP)
- Inverter Ready, 5:1 CT / 6:1 VT at 1.0 SF (450-500 HP)
- Class 1, Division 2, Groups A, B, C, D (1-400 HP)
- Suitable for 50 Hz Operation with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143T	PEWWE1-18-143T	\$380.75	1.5	85.5	41	FC
	1200	208-230/460	145T	PEWWE1-12-145T	\$529.65	1.7	82.5	53	DD FC
1.5	3600	208-230/460	143T	PEWWE1.5-36-143T	\$517.08	2.0	84.0	46	FC
	1800	208-230/460	145T	PEWWE1.5-18-145T	\$469.87	2.2	86.5	56	DD FC
	1200	208-230/460	182T	PEWWE1.5-12-182T	\$605.13	2.4	87.5	92	FC
	3600	208-230/460	145T	PEWWE2-36-145T	\$562.21	2.6	85.5	51	DD FC
2	1800	208-230/460	145T	PEWWE2-18-145T	\$497.83	2.9	86.5	59	DD FC
	1200	208-230/460	184T	PEWWE2-12-184T	\$794.79	3.0	88.5	100	DD FC
	3600	208-230/460	182T	PEWWE3-36-182T	\$678.90	3.8	86.5	57	
	1800	208-230/460	182T	PEWWE3-18-182T	\$700.94	4.0	89.5	86	FC
3	1200	208-230/460	213T	PEWWE3-12-213T	\$1,069.99	4.4	89.5	166	FC
	900	208-230/460	215T	PEWWE3-9-215T	\$2,028.41	4.8	85.5	154	DD FC
	3600	208-230/460	184T	PEWWE5-36-184T	\$839.94	6.0	88.5	96	DD
5	1800	208-230/460	184T	PEWWE5-18-184T	\$821.34	6.3	89.9	104	DD
	1200	208-230/460	215T	PEWWE5-12-215T	\$1,327.05	7.0	89.5	179	DD FC
	900	208-230/460	254T	PEWWE5-9-254T	\$2,758.73	7.3	86.5	219	FC
	3600	208-230/460	213T	PEWWE7.5-36-213T	\$1,268.31	8.8	89.5	105	FC
7.5	1800	208-230/460	213T	PEWWE7.5-18-213T	\$1,085.97	9.1	91.7	172	FC
	1200	208-230/460	254T	PEWWE7.5-12-254T	\$1,743.97	9.4	91.0	247	FC
	900	208-230/460	256T	PEWWE7.5-9-256T	\$3,005.96	10.8	86.5	249	DD FC
	3600	208-230/460	215T	PEWWE10-36-215T	\$1,316.57	11.7	90.2	180	DD FC
10	1800	208-230/460	215T	PEWWE10-18-215T	\$1,315.58	12.0	91.7	193	DD FC
	1200	208-230/460	256T	PEWWE10-12-256T	\$2,188.63	12.5	91.0	258	DD FC
	900	208-230/460	284T	PEWWE10-9-284T	\$3,884.17	13.8	89.5	347	FC
	3600	208-230/460	254T	PEWWE15-36-254T	\$2,132.69	17.3	91.0	190	FC
15	1800	208-230/460	254T	PEWWE15-18-254T	\$1,890.77	18.1	92.4	265	FC
	1200	208-230/460	284T	PEWWE15-12-284T	\$2,748.21	18.7	91.7	366	FC
	900	208-230/460	286T	PEWWE15-9-286T	\$4,369.54	20.4	89.5	390	DD FC
	3600	208-230/460	256T	PEWWE20-36-256T	\$2,599.49	23.1	91.0	297	DD FC
20	1800	208-230/460	256T	PEWWE20-18-256T	\$2,172.47	23.7	93.0	304	DD FC
	1200	208-230/460	286T	PEWWE20-12-286T	\$3,427.75	24.6	91.7	419	DD FC
	900	208-230/460	324T	PEWWE20-9-324T	\$6,107.85	26.3	90.2	501	FC
	3600	208-230/460	284TS	PEWWE25-36-284TS	\$3,208.21	29.0	91.7	358	FC
25	1800	208-230/460	284T	PEWWE25-18-284T	\$2,833.81	29.1	93.6	385	FC
	1800	208-230/460	284TS	PEWWE25-18-284TS	\$3,333.89	29.1	93.6	385	
	1200	208-230/460	324T	PEWWE25-12-324T	\$3,898.50	32.7	93.0	522	FC
	900	208-230/460	326T	PEWWE25-9-326T	\$6,616.44	32.9	90.2	552	DD FC

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 5: WORLDWIDE Premium Efficient Severe Duty Motors



Premium Efficient Severe Duty Motors (Cont.)

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
30	3600	208-230/460	286T	PEWWE30-36-286T	\$3,281.95	34.4	91.7	394	DD FC
	3600	208-230/460	286TS	PEWWE30-36-286TS	\$3,281.95	34.4	91.7	394	DD FC
	1800	208-230/460	286T	PEWWE30-18-286T	\$3,210.20	34.5	93.6	430	DD FC
	1200	208-230/460	326T	PEWWE30-12-326T	\$4,576.48	38.7	93.0	562	DD FC
	900	208-230/460	364T	PEWWE30-9-364T	\$7,542.38	40.8	91.7	731	FC
40	3600	208-230/460	324TS	PEWWE40-36-324TS	\$4,226.65	46.1	92.4	485	FC
	1800	208-230/460	324T	PEWWE40-18-324T	\$4,079.65	46.3	94.1	531	FC
	1200	208-230/460	364T	PEWWE40-12-364T	\$5,687.69	49.1	94.1	780	FC
	900	208-230/460	365T	PEWWE40-9-365T	\$9,561.54	54.5	91.7	796	DD FC
50	3600	208-230/460	326TS	PEWWE50-36-326TS	\$5,310.42	56.6	93.0	534	DD FC
	1800	208-230/460	326T	PEWWE50-18-326T	\$4,636.06	57.6	94.5	578	DD FC
	1200	208-230/460	365T	PEWWE50-12-365T	\$7,458.03	60.7	94.1	844	DD
	900	208-230/460	404T	PEWWE50-9-404T	\$12,237.08	66.7	92.4	968	R FC
60	3600	208-230/460	364TS	PEWWE60-36-364TS	\$7,282.31	70.6	93.6	743	
	1800	208-230/460	364T	PEWWE60-18-364T	\$6,124.02	72.0	95.0	769	
	1200	208-230/460	404T	PEWWE60-12-404T	\$8,245.81	70.8	94.5	1012	R FC
	900	208-230/460	405T	PEWWE60-9-405T	\$14,054.88	80.0	92.4	1058	R DD FC
75	3600	208-230/460	365TS	PEWWE75-36-365TS	\$8,720.58	88.3	93.6	787	DD
	3600	208-230/460	365TS	PEWWE75-36-365TS-IB	\$12,126.55	88.3	93.6	787	IB DD
	1800	208-230/460	365T	PEWWE75-18-365T	\$7,376.40	88.7	95.4	858	DD
	1200	208-230/460	405T	PEWWE75-12-405T	\$8,642.09	87.4	94.5	1129	R DD FC
	900	208-230/460	444T	PEWWE75-9-444T	\$16,574.55	101	93.6	1325	R FC
100	3600	208-230/460	405TS	PEWWE100-36-405TS	\$10,499.44	111	94.1	1054	DD
	3600	208-230/460	405TS	PEWWE100-36-405TS-IB	\$13,681.71	111	94.1	1054	DD
	1800	208-230/460	405T	PEWWE100-18-405T	\$8,745.45	113	95.4	1131	R DD
	1800	208-230/460	405T	PEWWE100-18-405TBB	\$8,745.45	113	95.4	1131	BB DD
	1800	208-230/460	405T	PEWWE100-18-405TBB-IB	\$11,055.91	113	95.4	1131	BB IB DD
	1800	208-230/460	405TS	PEWWE100-18-405TSBB	\$10,288.77	113	95.4	1131	BB DD
	1200	208-230/460	444T	PEWWE100-12-444T	\$12,506.21	120	95.0	1477	R FC
	1200	208-230/460	444T	PEWWE100-12-444T-IB	\$13,760.26	120	95.0	1477	IB R DD FC
	900	208-230/460	445T	PEWWE100-9-445T	\$17,623.08	135	93.6	1546	R DD FC
125	3600	208-230/460	444TS	PEWWE125-36-444TS	\$13,715.37	137	95.0	1338	FC
	3600	208-230/460	444TS	PEWWE125-36-444TS-IB	\$16,777.57	137	95.0	1338	IB FC
	1800	208-230/460	444T	PEWWE125-18-444T	\$11,738.65	146	95.4	1429	R FC
	1800	208-230/460	444T	PEWWE125-18-444TBB	\$11,738.65	146	95.4	1429	BB FC
	1800	208-230/460	444T	PEWWE125-18-444TBB-IB	\$14,164.55	146	95.4	1429	BB IB FC
	1200	208-230/460	445T	PEWWE125-12-445T	\$14,571.60	145	95.0	1632	R DD FC
	900	208-230/460	445/7T	PEWWE125-9-445/7T	\$22,996.47	168	94.1	1782	R DD FC
150	3600	208-230/460	445TS	PEWWE150-36-445TS	\$15,782.25	164	95.0	1517	DD FC
	3600	208-230/460	445TS	PEWWE150-36-445TS-IB	\$18,811.89	164	95.0	1517	IB DD FC
	1800	208-230/460	445T	PEWWE150-18-445T	\$12,890.59	172	95.8	1625	R DD FC
	1800	208-230/460	445T	PEWWE150-18-445T-IB	\$15,561.05	172	95.8	1625	IB R DD FC
	1800	208-230/460	445T	PEWWE150-18-445TBB	\$12,890.59	172	95.8	1625	BB DD FC
	1200	208-230/460	445/7T	PEWWE150-12-445/7T	\$18,612.99	179	95.8	2013	R DD FC
	1200	208-230/460	445/7T	PEWWE150-12-445/7T-IB	\$21,962.36	179	95.8	2013	IB R DD FC
	900	208-230/460	449T	PEWWE150-9-449T	\$27,213.83	194	94.1	2486	R DD** FC
200	3600	208-230/460	445/7TS	PEWWE200-36-445/7TS	\$21,331.47	216	96.2	1797	DD FC
	3600	208-230/460	445/7TS	PEWWE200-36-445/7TS-IB	\$25,041.89	216	96.2	1797	IB DD FC
	1800	208-230/460	445/7T	PEWWE200-18-445/7T	\$17,131.96	226	96.2	2033	R DD FC
	1800	208-230/460	445/7T	PEWWE200-18-445/7T-IB	\$19,845.29	226	96.2	2033	IB R DD FC
	1800	208-230/460	445/7T	PEWWE200-18-445/7TBB	\$17,131.96	226	96.2	2033	BB DD FC
	1800	208-230/460	445/7T	PEWWE200-18-445/7TBB-IB	\$20,081.23	226	96.2	2033	BB IB DD FC
	1200	460	449T	PEWWE200-12-449T	\$22,023.29	236	95.8	2664	R DD** FC
	1200	460	449T	PEWWE200-12-449T-IB	\$24,790.80	236	95.8	2664	IB R DD** FC
	1200	460	449T	PEWWE200-12-449TBB	\$22,023.29	236	95.8	2664	BB DD** FC

BB Ball bearing on drive-end for direct coupled applications
 IB Insulated opposite drive-end bearing installed
 R Roller bearing on drive-end for belted applications
 DD Double drilled feet
 FC F1/F2 convertible

* Double drilled feet with 6 holes
 ** Double drilled feet with 12 holes

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 5: WORLDWIDE Premium Efficient Severe Duty Motors



Premium Efficient Severe Duty Motors (Cont.)

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
200	1200	460	505Z	PEWWE200-12-505Z	\$30,726.40	225	95.8	2470	R DD*
	1200	460	505UZ	PEWWE200-12-505UZ	\$30,726.40	225	95.8	2470	R DD*
	900	208-230/460	449T	PEWWE200-9-449T	\$30,592.05	254	94.5	2971	R DD** FC
250	3600	460	449TS	PEWWE250-36-449TS	\$28,471.01	269	95.8	2200	DD** FC
	3600	460	449TS	PEWWE250-36-449TS-IB	\$32,067.59	269	95.8	2200	IB DD** FC
	1800	460	449T	PEWWE250-18-449T	\$27,919.12	280	96.2	2508	R DD** FC
	1800	460	449T	PEWWE250-18-449T-IB	\$31,358.68	280	96.2	2508	IB R DD** FC
	1800	460	449T	PEWWE250-18-449TBB	\$27,919.12	280	96.2	2508	BB DD** FC
	1800	460	449T	PEWWE250-18-449TBB-IB	\$31,294.23	280	96.2	2508	BB IB DD** FC
	1800	460	449TS	PEWWE250-18-449TSBB	\$31,021.24	280	96.2	2508	BB DD** FC
	1800	460	505Z	PEWWE250-18-505Z	\$30,416.76	280	96.2	2360	R DD*
	1800	460	505UZ	PEWWE250-18-505UZ	\$30,416.76	280	96.2	2360	R DD*
	1800	460	505UZ	PEWWE250-18-505UZ-IB	\$33,992.75	280	96.2	2360	IB R DD*
	1200	460	449T	PEWWE250-12-449T	\$33,855.42	298	95.8	2750	R DD** FC
	1200	460	449T	PEWWE250-12-449T-IB	\$37,126.75	298	95.8	2750	IB R DD** FC
	1200	460	449T	PEWWE250-12-449TBB	\$33,855.42	298	95.8	2750	BB DD** FC
	1200	460	586/7	PEWWE250-12-586/7	\$45,419.92	287	95.8	3737	R DD** FC
	1200	460	586/7	PEWWE250-12-586/7-IB	\$48,707.82	287	95.8	3737	IB R DD** FC
	1200	460	586/7UZ	PEWWE250-12-586/7UZ	\$45,419.92	287	95.8	3737	R DD** FC
	900	460	586/7	PEWWE250-9-586/7	\$48,519.36	312	95.0	4030	R DD** FC
300	1800	460	449T	PEWWE300-18-449T	\$34,642.22	336	96.2	2728	R DD** FC
	1800	460	449T	PEWWE300-18-449T-IB	\$38,081.79	336	96.2	2728	IB R DD** FC
	1800	460	449T	PEWWE300-18-449TBB	\$34,642.22	336	96.2	2728	BB DD** FC
	1800	460	449T	PEWWE300-18-449TBB-IB	\$38,380.88	336	96.2	2728	BB IB DD** FC
	1800	460	449TS	PEWWE300-18-449TSBB	\$40,755.58	336	96.2	2728	BB DD** FC
	1800	460	586/7	PEWWE300-18-586/7	\$44,479.04	324	96.2	3873	R DD** FC
	1800	460	586/7	PEWWE300-18-586/7-IB	\$47,471.94	324	96.2	3873	IB R DD** FC
	1800	460	586/7	PEWWE300-18-586/7BB	\$44,479.04	324	96.2	3873	BB DD** FC
	1800	460	586/7UZ	PEWWE300-18-586/7UZ	\$44,479.04	324	96.2	3873	R DD** FC
	1200	460	449T	PEWWE300-12-449T	\$37,704.50	353	95.8	2977	R DD** FC
	1200	460	449T	PEWWE300-12-449T-IB	\$41,114.35	353	95.8	2977	IB R DD** FC
	1200	460	449T	PEWWE300-12-449TBB	\$37,704.50	353	95.8	2977	BB DD** FC
	1200	460	449T	PEWWE300-12-449TBB-IB	\$41,443.17	353	95.8	2977	BB IB DD** FC
	1200	460	586/7	PEWWE300-12-586/7	\$48,926.86	341	95.8	4136	R DD** FC
	1200	460	586/7	PEWWE300-12-586/7-IB	\$52,032.75	341	95.8	4136	IB R DD** FC
	1200	460	586/7	PEWWE300-12-586/7BB	\$48,926.88	341	95.8	4136	BB DD** FC
	1200	460	586/7UZ	PEWWE300-12-586/7UZ	\$48,926.86	341	95.8	4136	R DD** FC
	1200	460	586/7UZ	PEWWE300-12-586/7UZ-IB	\$52,302.84	341	95.8	4136	IB R DD** FC
	900	460	586/7	PEWWE300-9-586/7	\$51,219.20	374	95.0	4440	R DD** FC
	900	460	586/7UZ	PEWWE300-9-586/7UZ	\$51,219.20	374	95.0	4440	R DD** FC
350	1800	460	449T	PEWWE350-18-449T-IB	\$43,353.11	392	96.2	2870	IB R DD** FC
	1800	460	449T	PEWWE350-18-449TBB-IB	\$43,353.11	392	96.2	2870	IB DD** FC
	1800	460	586/7	PEWWE350-18-586/7	\$48,639.39	374	96.2	4070	R DD** FC
	1800	460	586/7	PEWWE350-18-586/7-IB	\$51,983.38	374	96.2	4070	IB R DD** FC
	1800	460	586/7UZ	PEWWE350-18-586/7UZ-IB	\$51,983.38	374	96.2	4070	IB R DD** FC
	1200	460	449T	PEWWE350-12-449T	\$45,802.49	407	95.8	2930	R DD** FC
	1200	460	449T	PEWWE350-12-449T-IB	\$49,271.74	407	95.8	2930	IB R DD** FC
	1200	460	586/7	PEWWE350-12-586/7	\$53,956.50	398	95.8	4145	R DD** FC
	1200	460	586/7	PEWWE350-12-586/7-IB	\$57,486.25	398	95.8	4145	IB R DD** FC
400	1200	460	586/7UZ	PEWWE350-12-586/7UZ	\$53,956.50	398	95.8	4145	R DD** FC
	1800	460	586/7	PEWWE400-18-586/7	\$51,749.62	428	96.2	4374	R DD** FC
	1800	460	586/7	PEWWE400-18-586/7-IB	\$54,884.57	428	96.2	4374	IB R DD** FC
	1800	460	586/7	PEWWE400-18-586/7BB-IB	\$54,884.57	428	96.2	4374	BB IB DD** FC
	1800	460	586/7UZ	PEWWE400-18-586/7UZ	\$51,749.62	428	96.2	4374	R DD** FC
	1800	460	586/7UZ	PEWWE400-18-586/7UZ-IB	\$54,884.57	428	96.2	4374	IB R DD** FC

BB Ball bearing on drive-end for direct coupled applications
 IB Insulated opposite drive-end bearing installed
 R Roller bearing on drive-end for belted applications
 DD Double drilled feet
 FC F1/F2 convertible

* Double drilled feet with 6 holes
 ** Double drilled feet with 12 holes

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Premium Efficient Severe Duty Motors (Cont.)

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
400	1200	460	586/7	PEWWE400-12-586/7	\$55,000.03	449	95.8	4707	R DD** FC
	1200	460	586/7	PEWWE400-12-586/7-IB	\$58,439.60	449	95.8	4707	IB R DD** FC
	1200	460	586/7	PEWWE400-12-586/7BB	\$55,000.03	449	95.8	4707	BB DD** FC
	1200	460	586/7	PEWWE400-12-586/7BB-IB	\$58,439.60	449	95.8	4707	BB IB DD** FC
	1200	460	586/7UZ	PEWWE400-12-586/7UZ	\$55,000.03	449	95.8	4707	R DD** FC
	1200	460	586/7UZ	PEWWE400-12-586/7UZ-IB	\$59,766.21	449	95.8	4707	IB R DD** FC
450	1800	460	586/7	PEWWE450-18-586/7	\$56,719.83	481	96.2	4500	R DD**
	1800	460	586/7	PEWWE450-18-586/7-IB	\$60,292.85	481	96.2	4500	IB R DD**
	1200	460	586/7	PEWWE450-12-586/7	\$58,099.24	506	95.8	4850	R ▲ DD**
	1200	460	586/7	PEWWE450-12-586/7-IB	\$61,643.69	506	95.8	4850	IB R ▲ DD**
500	1800	460	586/7	PEWWE500-18-586/7	\$60,893.74	535	96.2	4630	R DD**
	1800	460	586/7	PEWWE500-18-586/7-IB	\$64,236.44	535	96.2	4630	IB R DD**
	1800	460	586/7	PEWWE500-18-586/7BB	\$60,893.74	535	96.2	4630	BB DD**
	1800	460	586/7	PEWWE500-18-586/7BB-IB	\$64,236.44	535	96.2	4630	BB IB DD**
	1800	460	586/7UZ	PEWWE500-18-586/7UZ	\$60,893.74	535	96.2	4630	R DD**
	1200	460	586/7	PEWWE500-12-586/7	\$61,462.58	562	95.8	4740	R ▲ DD**
	1200	460	586/7	PEWWE500-12-586/7-IB	\$64,805.28	562	95.8	4740	IB R ▲ DD**
	1200	460	586/7UZ	PEWWE500-12-586/7UZ	\$61,462.58	562	95.8	4740	R ▲ DD**
	1200	460	586/7UZ	PEWWE500-12-586/7UZ-IB	\$64,805.28	562	95.8	4740	IB R ▲ DD**

Helwig Carbon® The Bearing Protector™

- For use on WorldWide Electric Severe Duty Motors *
- Divert current from motor shaft
- Provides lowest resistant path to ground
- Easy to install - Simply remove top two bearing cap bolts
- Includes integral bracket for easy mounting

Frame Size	Model Number	List Price
364T / 365T	SGK-PEWWE-364/5T	\$1,382.74
444T / 445T	SGK-PEWWE-444/5T	\$1,382.74
445/7TS	SGK-PEWWE-445/7TS	\$1,382.74
445/7T	SGK-PEWWE-445/7T	\$1,382.74
449T	SGK-PEWWE-449T	\$1,382.74
586/7 / 586/7UZ	SGK-PEWWE-586/7T-UZ	\$1,382.74

* Installation of this product will result in loss of Class I Division 2 Classification from motor - please contact WWE for new motor nameplate at a cost of \$25 net.

PEWWE Shaft Grounding Seals

- For use on WorldWide Electric Severe Duty Motors *
- Divert current from motor shaft
- Press fit design includes shaft seal and grounding in one

Frame Size	Model Number	List Price
445/7TS (200 HP)	SGS-PEWWE-447TS-2	\$1,045.35
445/7T (200 HP)	SGS-PEWWE-447T-4	\$1,266.59
449T (200-300 HP)	SGS-PEWWE-449T-NU320	\$1,321.90
449T (350 HP)	SGS-PEWWE-449T/504/5T-NU322	\$1,487.83
505Z / 505UZ	SGS-PEWWE-449T/504/5T-NU322	\$1,487.83
586/7 / 586/7UZ	SGS-PEWWE-586/7T-NU326	\$2,240.04

* Installation of this product will result in loss of Class I Division 2 Classification from motor - please contact WWE for new motor nameplate at a cost of \$25 net.



- ▲ 1.0 SF
- BB Ball bearing on drive-end for direct coupled applications
- IB Insulated opposite drive-end bearing installed
- R Roller bearing on drive-end for belted applications
- DD Double drilled feet
- FC F1/F2 convertible

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Premium Efficient Severe Duty Motors

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 1-300 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 Volt, 60 Hz
- 460 Volt, 60 Hz (449TC Frame)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.25 SF (1-200 HP)
- 1.15 SF (250-300 HP)
- Class F Insulation
- C-Face with Feet
- Premium Efficiency
- Inverter Duty, 10:1 CT / 20:1 VT at 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- Suitable for 50 Hz Operation with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143TC	PEWWE1-18-143TC	\$396.62	1.6	86.3	49	
	1200	208-230/460	145TC	PEWWE1-12-145TC	\$551.71	1.6	82.5	51	
1.5	3600	208-230/460	143TC	PEWWE1.5-36-143TC	\$538.63	2.0	85.5	48	
	1800	208-230/460	145TC	PEWWE1.5-18-145TC	\$489.45	2.3	87.3	55	
2	3600	208-230/460	145TC	PEWWE2-36-145TC	\$585.64	2.7	86.6	56	
	1800	208-230/460	145TC	PEWWE2-18-145TC	\$518.57	3.0	87.3	58	
3	3600	208-230/460	145TC	PEWWE3-36-145TC	\$831.99	3.8	87.4	57	
	3600	208-230/460	182TC	PEWWE3-36-182TC	\$707.19	3.9	88.0	79	
	1800	208-230/460	182TC	PEWWE3-18-182TC	\$730.14	4.0	90.3	98	
	1200	208-230/460	213TC	PEWWE3-12-213TC	\$1,114.57	4.2	89.5	165	
5	3600	208-230/460	184TC	PEWWE5-36-184TC	\$874.94	6.3	89.0	95	
	1800	208-230/460	184TC	PEWWE5-18-184TC	\$855.56	6.7	90.3	115	
	1200	208-230/460	215TC	PEWWE5-12-215TC	\$1,382.34	6.9	89.5	171	
7.5	3600	208-230/460	184TC	PEWWE7.5-36-184TC	\$1,554.29	8.8	90.8	105	
	3600	208-230/460	213TC	PEWWE7.5-36-213TC	\$1,321.15	9.2	89.7	176	
	1800	208-230/460	213TC	PEWWE7.5-18-213TC	\$1,131.23	9.3	91.8	158	
	1200	208-230/460	254TC	PEWWE7.5-12-254TC	\$1,816.64	10.4	91.1	251	
10	3600	208-230/460	215TC	PEWWE10-36-215TC	\$1,371.43	12.2	90.3	180	
	1800	208-230/460	215TC	PEWWE10-18-215TC	\$1,370.39	12.5	91.8	175	
	1200	208-230/460	256TC	PEWWE10-12-256TC	\$2,279.82	13.9	91.0	251	
15	3600	208-230/460	215TC	PEWWE15-36-215TC	\$2,613.58	17.3	91.8	190	
	3600	208-230/460	254TC	PEWWE15-36-254TC	\$2,221.55	18.2	91.2	276	
	1800	208-230/460	254TC	PEWWE15-18-254TC	\$1,969.56	17.1	92.5	294	
	1200	208-230/460	284TC	PEWWE15-12-284TC	\$2,862.72	20.2	91.7	419	
20	3600	208-230/460	256TC	PEWWE20-36-256TC	\$2,707.81	24.2	91.2	298	
	1800	208-230/460	256TC	PEWWE20-18-256TC	\$2,262.99	24.0	93.8	436	
	1200	208-230/460	286TC	PEWWE20-12-286TC	\$3,570.58	26.2	91.7	449	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 5: WORLDWIDE Premium Efficient Severe Duty Motors



Premium Efficient Severe Duty Motors (Cont.)

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
25	3600	208-230/460	256TC	PEWWE25-36-256TC	\$3,931.64	28.7	92.1	309	
	3600	208-230/460	256TSC	PEWWE25-36-256TSC	\$3,931.64	28.7	92.1	309	
	3600	208-230/460	284TC	PEWWE25-36-284TC	\$3,341.89	29.3	91.7	358	
	3600	208-230/460	284TCS	PEWWE25-36-284TSC	\$3,341.89	29.4	91.9	350	
	1800	208-230/460	284TC	PEWWE25-18-284TC	\$2,951.88	29.8	93.6	406	
	1200	208-230/460	324TC	PEWWE25-12-324TC	\$4,060.93	32.3	93.0	629	
30	3600	208-230/460	286TC	PEWWE30-36-286TC	\$3,418.69	34.8	91.7	394	
	3600	208-230/460	286TCS	PEWWE30-36-286TSC	\$3,418.69	35.2	91.9	384	
	1800	208-230/460	286TC	PEWWE30-18-286TC	\$3,343.96	35.7	93.7	448	
	1200	208-230/460	326TC	PEWWE30-12-326TC	\$4,767.17	38.8	93.0	660	
40	3600	208-230/460	324TC	PEWWE40-36-324TC	\$4,402.75	46.1	92.4	485	
	3600	208-230/460	324TSC	PEWWE40-36-324TSC	\$4,402.75	46.6	92.7	560	
	1800	208-230/460	324TC	PEWWE40-18-324TC	\$4,249.63	47.4	94.4	684	
	1200	208-230/460	364TC	PEWWE40-12-364TC	\$5,924.68	49.8	94.1	933	
50	3600	208-230/460	326TC	PEWWE50-36-326TC	\$5,531.69	56.6	93.0	534	
	3600	208-230/460	326TSC	PEWWE50-36-326TSC	\$5,531.69	57.2	93.2	598	
	1800	208-230/460	326TC	PEWWE50-18-326TC	\$4,829.24	60.4	94.5	580	
	1200	208-230/460	365TC	PEWWE50-12-365TC	\$7,768.78	62.3	94.1	968	
60	3600	208-230/460	364TSC	PEWWE60-36-364TSC	\$7,585.74	68.3	93.6	710	
	1800	208-230/460	364TC	PEWWE60-18-364TC	\$6,379.18	68.8	95.1	805	
	1200	208-230/460	404TC	PEWWE60-12-404TC	\$8,589.38	72.6	94.5	1020	
75	3600	208-230/460	365TCS	PEWWE75-36-365TSC	\$9,002.18	85.3	93.6	849	
	1800	208-230/460	365TC	PEWWE75-18-365TC	\$7,683.76	83.8	95.4	891	
	1200	208-230/460	405TC	PEWWE75-12-405TC	\$9,002.18	90.7	94.5	1180	
100	3600	208-230/460	405TSC	PEWWE100-36-405TSC	\$10,936.91	111	94.2	1007	
	1800	208-230/460	405TC	PEWWE100-18-405TC	\$9,109.86	114	95.4	1198	
	1800	208-230/460	405TSC	PEWWE100-18-405TSC	\$10,717.48	114	95.4	1198	
125	3600	208-230/460	444TSC	PEWWE125-36-444TSC	\$14,286.84	137	95.0	1366	
	1800	208-230/460	444TC	PEWWE125-18-444TC	\$12,227.77	143	95.4	1609	
150	3600	208-230/460	445TSC	PEWWE150-36-445TSC	\$16,439.83	165	95.0	1496	
	1800	208-230/460	445TC	PEWWE150-18-445TC	\$13,427.70	171	95.8	2062	
200	1800	208-230/460	445/7TC	PEWWE200-18-445/7TC	\$17,845.80	227	96.3	2124	
	1200	460	449TC	PEWWE200-12-449TC	\$22,940.92	232	95.8	2678	
250	1800	460	449TC	PEWWE250-18-449TC	\$29,082.41	283	96.2	2498	
300	1800	460	449TC	PEWWE300-18-449TC	\$36,085.66	336.0	96.2	2728	

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WORLDWIDE
PEWWE Severe Duty

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 6: WORLDWIDE Explosion Proof Motors



Explosion Proof Motors

TEXP Enclosure ■ Rigid Base ■ Three-Phase ■ 208-230/460 and 460 Volt

Product Specifications

- 1-300 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 Volt (1-100 HP)
- 460 Volt (125-300 HP)
- Totally Enclosed Fan Cooled Explosion Proof (TEXP) Enclosure
- IP55 Protection
- 1.15 SF
- Class F Insulation
- Rigid Base
- Premium Efficiency (1-200 HP)
- High Efficiency (250-300 HP)
- Inverter Duty, 5:1 CT / 10:1 VT (1-200 HP only)
- Normally Closed Winding Thermostats Provided
- UL Listed Class 1, Div. 1, Groups C and D; Class 2, Div. 1, Groups F and G; T3C; Inverter Duty (1-200 HP), 40°C amb. temp. as standard
- 143T-215T: Class 1, Div. 1, Groups C and D; T3C; Inverter Duty (1-200 HP); 55°C amb. temp.
- 254T-449T: Class 1, Div. 1, Groups C and D; T2C; Inverter Duty (1-200 HP); 55°C amb. temp.



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143T	IXPEWWE1-18-143T	\$917.50	1.4	85.5	62	
	1200	208-230/460	145T	IXPEWWE1-12-145T	\$1,010.29	1.7	82.5	79	
1.5	3600	208-230/460	143T	IXPEWWE1.5-36-143T	\$930.29	1.9	84.0	73	
	1800	208-230/460	145T	IXPEWWE1.5-18-145T	\$1,001.85	2.0	86.5	88	
2	1200	208-230/460	182T	IXPEWWE1.5-12-182T	\$1,107.37	2.1	87.5	115	
	3600	208-230/460	145T	IXPEWWE2-36-145T	\$1,049.34	2.5	85.5	75	
3	1800	208-230/460	145T	IXPEWWE2-18-145T	\$1,107.37	2.6	86.5	88	
	1200	208-230/460	184T	IXPEWWE2-12-184T	\$1,402.65	2.8	88.5	130	
5	3600	208-230/460	182T	IXPEWWE3-36-182T	\$1,286.65	3.5	86.5	115	
	1800	208-230/460	182T	IXPEWWE3-18-182T	\$1,344.63	3.8	89.5	130	
7.5	1200	208-230/460	213T	IXPEWWE3-12-213T	\$1,703.19	4.0	89.5	238	
	3600	208-230/460	184T	IXPEWWE5-36-184T	\$1,587.19	6.0	88.5	128	
10	1800	208-230/460	184T	IXPEWWE5-18-184T	\$1,587.19	7.0	89.5	183	
	1200	208-230/460	215T	IXPEWWE5-12-215T	\$2,183.06	7.5	89.5	295	
15	3600	208-230/460	213T	IXPEWWE7.5-36-213T	\$1,882.51	8.3	89.5	253	
	1800	208-230/460	213T	IXPEWWE7.5-18-213T	\$2,082.89	8.9	91.7	254	
20	1200	208-230/460	254T	IXPEWWE7.5-12-254T	\$2,437.58	12.5	91.0	386	
	3600	208-230/460	215T	IXPEWWE10-36-215T	\$2,177.78	11.5	90.2	262	
25	1800	208-230/460	215T	IXPEWWE10-18-215T	\$2,251.59	12.2	91.7	262	
	1200	208-230/460	256T	IXPEWWE10-12-256T	\$3,063.66	12.5	91.0	384	
30	3600	208-230/460	254T	IXPEWWE15-36-254T	\$3,047.82	16.5	91.0	401	
	1800	208-230/460	254T	IXPEWWE15-18-254T	\$3,047.82	17.5	92.4	403	
40	1200	208-230/460	284T	IXPEWWE15-12-284T	\$3,926.04	22.8	91.7	476	
	3600	208-230/460	256T	IXPEWWE20-36-256T	\$3,234.05	22.8	91.0	434	
50	1800	208-230/460	256T	IXPEWWE20-18-256T	\$3,366.24	23.0	93.0	428	
	1200	208-230/460	286T	IXPEWWE20-12-286T	\$4,667.94	23.5	91.7	520	
75	3600	208-230/460	284TS	IXPEWWE25-36-284TS	\$3,945.93	27.5	91.7	506	
	1800	208-230/460	284T	IXPEWWE25-18-284T	\$4,144.25	27.5	93.6	558	
100	1200	208-230/460	324T	IXPEWWE25-12-324T	\$5,608.64	29.0	93.0	657	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 6: WORLDWIDE Explosion Proof Motors



Explosion Proof Motors (Cont.)

TEXP Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
30	3600	208-230/460	286TS	IXPEWWE30-36-286TS	\$4,565.03	32.5	91.7	528	
	1800	208-230/460	286T	IXPEWWE30-18-286T	\$4,540.80	32.5	93.6	580	
	1200	208-230/460	326T	IXPEWWE30-12-326T	\$6,869.81	34.5	93.0	739	
40	3600	208-230/460	324TS	IXPEWWE40-36-324TS	\$5,745.95	44.5	92.4	710	
	1800	208-230/460	324T	IXPEWWE40-18-324T	\$5,850.56	44.5	94.1	734	
	1200	208-230/460	364T	IXPEWWE40-12-364T	\$8,601.60	46.0	94.1	911	
50	3600	208-230/460	326TS	IXPEWWE50-36-326TS	\$7,504.07	54.0	93.0	743	
	1800	208-230/460	326T	IXPEWWE50-18-326T	\$7,088.25	55.0	94.5	763	
	1200	208-230/460	365T	IXPEWWE50-12-365T	\$9,584.48	56.5	94.1	899	
60	3600	208-230/460	364TS	IXPEWWE60-36-364TS	\$8,837.65	65.5	93.6	860	
	1800	208-230/460	364T	IXPEWWE60-18-364T	\$9,054.05	66.5	95.0	891	
	1200	208-230/460	404T	IXPEWWE60-12-404T	\$12,102.08	69.0	94.5	1188	
75	3600	208-230/460	365TS	IXPEWWE75-36-365TS	\$11,433.04	84.5	93.6	946	
	1800	208-230/460	365T	IXPEWWE75-18-365T	\$10,832.60	86.5	95.4	957	
	1200	208-230/460	405T	IXPEWWE75-12-405T	\$13,825.85	84.0	94.5	1349	
100	3600	208-230/460	405TS	IXPEWWE100-36-405TS	\$14,747.58	109	94.1	1393	
	1800	208-230/460	405T	IXPEWWE100-18-405TBB	\$13,677.25	110	95.4	1426	BB
	1200	208-230/460	444/5T	IXPEWWE100-12-444/5T	\$19,382.17	117	95.0	1642	
	1200	208-230/460	444/5T	IXPEWWE100-12-444/5TBB	\$19,382.17	117	95.0	1642	BB
125	3600	460	444/5TS	IXPEWWE125-36-444/5TS	\$18,249.77	130	95.0	1638	
	1800	460	444/5T	IXPEWWE125-18-444/5TBB	\$17,756.49	133	95.4	1640	BB
	1200	460	444/5T	IXPEWWE125-12-444/5TBB	\$24,291.40	135	95.0	1779	BB
150	3600	460	444/5TS	IXPEWWE150-36-444/5TS	\$23,886.86	160	95.0	1830	
	1800	460	444/5T	IXPEWWE150-18-444/5TBB	\$26,231.22	163	95.8	1898	BB
	1200	460	447/9T	IXPEWWE150-12-447/9TBB	\$33,269.82	166	95.8	2174	BB
200	3600	460	444/5TS	IXPEWWE200-36-445/7/9TS	\$31,319.75	214	95.4	2370	
	1800	460	445/7/9T	IXPEWWE200-18-445/7/9TBB	\$31,489.20	217	96.2	2348	BB
	1200	460	447/9T	IXPEWWE200-12-447/9TBB	\$48,147.99	228	95.8	2368	BB
250	3600	460	447/9TS	XWWE250-36-447/9TS	\$38,256.00	274	95.4	2355	X
	1800	460	447/9T	IXPEWWE250-18-447/9TBB	\$40,212.02	275	95.2	2560	BB
300	1800	460	447/9T	XWWE300-18-447/9TBB	\$50,191.32	325	95.4	2728	BB X

BB Ball bearing on drive-end for direct coupled applications
X High efficiency - not suitable for inverter duty applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 6: WORLDWIDE Explosion Proof Motors



Explosion Proof Motors

TEXP Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 2-300 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 Volt (2-100 HP)
- 460 Volt (125-300 HP)
- Totally Enclosed Fan Cooled Explosion Proof (TEXP) Enclosure
- IP55 Protection
- 1.15 SF
- Class F Insulation
- C-Face with Feet
- Premium Efficiency (2-200 HP)
- High Efficiency (250-300 HP)
- Inverter Duty, 5:1 CT / 10:1 VT (2-200 HP only)
- Normally Closed Winding Thermostats Provided
- UL Listed Class 1, Div. 1, Groups C and D; Class 2, Div. 1, Groups F and G; T3C; Inverter Duty (2-200 HP); 40°C amb. temp. as standard
- 143T-215T: Class 1, Div. 1, Groups C and D; T3C; Inverter Duty (2-200 HP); 55°C amb. temp.
- 254T-449T: Class 1, Div. 1, Groups C and D; T2C; Inverter Duty (2-200 HP); 55°C amb. temp.



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
2	1800	208-230/460	145TC	IXPEWWE2-18-145TC	\$1,153.52	2.6	86.5	88	
3	1800	208-230/460	182TC	IXPEWWE3-18-182TC	\$1,400.66	3.8	89.5	130	
	1200	208-230/460	213TC	IXPEWWE3-12-213TC	\$1,774.15	4.0	89.5	238	
5	1800	208-230/460	184TC	IXPEWWE5-18-184TC	\$1,653.33	7.0	89.5	183	
7.5	3600	208-230/460	213TC	IXPEWWE7.5-36-213TC	\$1,960.95	8.3	89.5	253	
	1800	208-230/460	213TC	IXPEWWE7.5-18-213TC	\$2,169.67	8.9	91.7	254	
10	3600	208-230/460	215TC	IXPEWWE10-36-215TC	\$2,268.52	11.5	90.2	262	
	1800	208-230/460	215TC	IXPEWWE10-18-215TC	\$2,345.41	12.2	91.7	262	
	1200	208-230/460	256TC	IXPEWWE10-12-256TC	\$3,191.32	12.5	91.0	384	
15	3600	208-230/460	254TC	IXPEWWE15-36-254TC	\$3,174.81	16.5	91.0	401	
	1800	208-230/460	254TC	IXPEWWE15-18-254TC	\$3,174.81	17.5	92.4	403	
	1200	208-230/460	284TC	IXPEWWE15-12-284TC	\$4,089.62	22.8	91.7	476	
20	3600	208-230/460	256TC	IXPEWWE20-36-256TC	\$3,368.81	22.8	91.0	434	
	1800	208-230/460	256TC	IXPEWWE20-18-256TC	\$3,506.50	23.0	93.0	428	
25	3600	208-230/460	284TSC	IXPEWWE25-36-284TSC	\$4,110.34	27.5	91.7	506	
	1800	208-230/460	284TC	IXPEWWE25-18-284TC	\$4,316.94	27.5	93.6	558	
30	3600	208-230/460	286TSC	IXPEWWE30-36-286TSC	\$4,755.24	32.5	91.7	528	
	1800	208-230/460	286TC	IXPEWWE30-18-286TC	\$4,730.01	32.5	93.6	580	
40	3600	208-230/460	324TSC	IXPEWWE40-36-324TSC	\$5,985.37	44.5	92.4	710	
	1800	208-230/460	324TC	IXPEWWE40-18-324TC	\$6,094.33	44.5	94.1	734	
50	1800	208-230/460	326TC	IXPEWWE50-18-326TC	\$7,383.60	55.0	94.5	763	
60	3600	208-230/460	364TSC	IXPEWWE60-36-364TSC	\$9,205.90	65.5	93.6	860	
	1800	208-230/460	364TC	IXPEWWE60-18-364TC	\$9,431.29	66.5	95.0	891	
75	1800	208-230/460	365TC	IXPEWWE75-18-365TC	\$11,283.97	86.5	94.5	957	
100	3600	208-230/460	405TSC	IXPEWWE100-36-405TSC	\$15,362.06	109	94.1	1393	
	1800	208-230/460	405TC	IXPEWWE100-18-405TC	\$14,247.13	110	95.4	1426	
125	1800	460	444/5TC	IXPEWWE125-18-444/5TC	\$18,496.36	133	95.4	1640	
150	1800	460	444/5TC	IXPEWWE150-18-444/5TC	\$27,324.18	163	95.8	1898	
200	1800	460	445/7/9TC	IXPEWWE200-18-445/7/9TC	\$32,801.26	217	96.2	2348	
300	1800	460	447/9TC	XWWE300-18-447/9TC	\$52,282.61	325	95.4	2745	X

X High efficiency - not suitable for inverter duty applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 7: WORLDWIDE Definite Purpose Motors



Advanced Design Rock Crusher Motors

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 250-600 HP
- 1800 and 1200 RPM
- 208-230/460 Volt (100-200 HP)
- 460 Volt (250-600 HP)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.15 SF
- Class F Insulation
- Rigid Base
- 4140 High Tensile Strength Steel Shaft
- Premium Efficiency
- Inverter Ready, 2:1 CT / 5:1 VT
- Please Consult WorldWide Electric for 50 Hz Operation



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
200	1200	460	505Z	PEWWE200-12-505Z	\$30,726.40	225	95.8	2470	
	1200	460	505UZ	PEWWE200-12-505UZ	\$30,726.40	225	95.8	2470	
250	1800	460	449T	PEWWE250-18-449T	\$27,919.12	280	96.2	2508	R
	1800	460	449T	PEWWE250-18-449T-IB	\$31,358.68	280	96.2	2508	IB R
	1800	460	505Z	PEWWE250-18-505Z	\$30,416.76	280	96.2	2360	R
	1800	460	505UZ	PEWWE250-18-505UZ	\$30,416.76	280	96.2	2360	R
	1800	460	505UZ	PEWWE250-18-505UZ-IB	\$33,992.75	280	96.2	2360	IB R
	1200	460	449T	PEWWE250-12-449T	\$33,855.42	298	95.8	2750	R
	1200	460	449T	PEWWE250-12-449T-IB	\$37,126.75	298	95.8	2750	IB R
	1200	460	586/7	PEWWE250-12-586/7	\$45,419.92	287	95.8	3737	R
	1200	460	586/7	PEWWE250-12-586/7-IB	\$48,707.82	287	95.8	3737	IB R
	1200	460	586/7UZ	PEWWE250-12-586/7UZ	\$45,419.92	287	95.8	3737	R
300	1800	460	449T	PEWWE300-18-449T	\$34,642.22	336	96.2	2728	R
	1800	460	449T	PEWWE300-18-449T-IB	\$38,081.79	336	96.2	2728	IB R
	1800	460	586/7	PEWWE300-18-586/7	\$44,479.04	324	96.2	3873	R
	1800	460	586/7	PEWWE300-18-586/7-IB	\$47,471.94	324	96.2	3873	IB R
	1800	460	586/7UZ	PEWWE300-18-586/7UZ	\$44,479.04	324	96.2	3873	R
	1200	460	449T	PEWWE300-12-449T	\$37,704.50	353	95.8	2977	R
	1200	460	449T	PEWWE300-12-449T-IB	\$41,114.35	353	95.8	2977	IB R
	1200	460	586/7	PEWWE300-12-586/7-IB	\$52,032.75	341	95.8	4136	IB R
	1200	460	586/7UZ	PEWWE300-12-586/7UZ	\$48,926.86	341	95.8	4136	R
	1800	460	449T	PEWWE350-18-449T-IB	\$43,353.11	392	96.2	2870	IB R
350	1800	460	449T	PEWWE350-18-449TBB-IB	\$43,353.11	392	96.2	2870	IB
	1800	460	586/7	PEWWE350-18-586/7	\$48,639.39	374	96.2	4070	R
	1800	460	586/7	PEWWE350-18-586/7-IB	\$51,983.38	374	96.2	4070	IB R
	1800	460	586/7UZ	PEWWE350-18-586/7UZ-IB	\$51,983.38	374	96.2	4070	IB R
	1200	460	449T	PEWWE350-12-449T	\$45,802.49	407	95.8	2930	R
	1200	460	449T	PEWWE350-12-449T-IB	\$49,271.74	407	95.8	2930	IB R
	1200	460	586/7	PEWWE350-12-586/7	\$53,956.50	398	95.8	4145	R
	1200	460	586/7	PEWWE350-12-586/7-IB	\$57,486.25	398	95.8	4145	IB R
	1200	460	586/7UZ	PEWWE350-12-586/7UZ	\$53,956.50	398	95.8	4145	R
	1800	460	586/7	PEWWE400-18-586/7	\$51,749.62	428	96.2	4374	R
400	1800	460	586/7UZ	PEWWE400-18-586/7UZ	\$51,749.62	428	96.2	4374	R
	1800	460	586/7UZ	PEWWE400-18-586/7UZ-IB	\$54,884.57	428	96.2	4374	IB R
	1200	460	586/7	PEWWE400-12-586/7	\$55,000.03	449	95.8	4707	R
	1200	460	586/7	PEWWE400-12-586/7-IB	\$58,439.60	449	95.8	4707	IB R
	1200	460	586/7UZ	PEWWE400-12-586/7UZ	\$55,000.03	449	95.8	4707	R
450	1800	460	586/7	PEWWE450-18-586/7	\$56,719.83	481	96.2	4500	R
	1200	460	586/7	PEWWE450-12-586/7	\$58,099.24	506	95.8	4850	R ▲
500	1800	460	586/7	PEWWE500-18-586/7	\$60,893.74	535	96.2	4630	R
	1800	460	586/7	PEWWE500-18-586/7-IB	\$64,236.44	535	96.2	4630	IB R
	1800	460	586/7UZ	PEWWE500-18-586/7UZ	\$60,893.74	535	96.2	4630	R
	1200	460	586/7	PEWWE500-12-586/7	\$61,462.58	562	95.8	4740	R ▲
	1200	460	586/7	PEWWE500-12-586/7-IB	\$64,805.28	562	95.8	4740	IB R ▲
	1200	460	586/7UZ	PEWWE500-12-586/7UZ	\$61,462.58	562	95.8	4740	R ▲
600	1800	460	586/7	WWE600-18-586/7	\$65,586.97	661	95.0	4630	R
	1800	460	586/7	WWE600-18-586/7BB	\$65,586.97	661	95.0	4630	BB

▲ 1.0 SF

IB Insulated opposite drive-end bearing installed

R Roller bearing on drive-end for belted applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 7: WORLDWIDE Definite Purpose Motors



Oil Well Pump Motors

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 230/460/796 Volt

Product Specifications

- 3-150 HP
- 1200 and 900 RPM
- 230/460/796 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.15 SF
- Class F Insulation
- Rigid Base
- High Efficiency
- Inverter Duty, 10:1 CT / 20:1 VT
- 3000 Volt Spike Resistant, Inverter Duty Wire
- Motors Meet NEMA MG-1, Part 31
- Three Winding Thermostats Provided (One Per Phase)
- NEMA Design D - High Slip 5-8%
- Suitable for 50 Hz Operation with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
3	1200	230/460/796	213T	OW3-12-213T	\$1,020.49	4.0	84.9	143	
	900	230/460/796	215T	OW3-9-215T	\$1,299.44	4.9	84.0	153	
5	1200	230/460/796	215T	OW5-12-215T	\$1,208.46	7.5	87.5	158	
	900	230/460/796	254T	OW5-9-254T	\$2,076.19	7.9	85.6	248	
7.5	1200	230/460/796	254T	OW7.5-12-254T	\$1,512.89	10.7	85.0	251	
	900	230/460/796	256T	OW7.5-9-256T	\$2,192.35	12.4	87.4	272	
10	1200	230/460/796	256T	OW10-12-256T	\$2,058.89	13.9	86.5	286	
	900	230/460/796	284T	OW10-9-284T	\$2,983.62	16.7	87.0	410	
15	1200	230/460/796	284T	OW15-12-284T	\$2,587.05	19.5	87.7	409	
	900	230/460/796	286T	OW15-9-286T	\$3,346.58	22.1	88.0	321	
20	1200	230/460/796	286T	OW20-12-286T	\$3,176.74	25.5	89.9	451	
	900	230/460/796	324T	OW20-9-324T	\$4,028.97	26.3	89.1	631	
25	1200	230/460/796	324T	OW25-12-324T	\$3,714.67	34.6	90.3	550	
	900	230/460/796	326T	OW25-9-326T	\$4,384.68	34.0	89.4	689	
30	1200	230/460/796	326T	OW30-12-326T	\$4,402.52	35.4	91.7	622	
	900	230/460/796	364T	OW30-9-364T	\$5,415.52	39.2	91.1	801	
40	1200	230/460/796	365T	OW40-12-365T	\$5,952.08	47.9	87.4	714	
	900	230/460/796	404T	OW40-9-404T	\$6,417.31	53.6	90.5	989	R
50	1200	230/460/796	404T	OW50-12-404T	\$6,677.94	57.8	91.3	957	R
	900	230/460/796	405T	OW50-9-405T	\$8,740.32	64.2	91.5	1107	R
60	1200	230/460/796	405T	OW60-12-405T	\$7,096.35	78.0	82.4	1058	R
	900	230/460/796	444T	OW60-9-444T	\$9,596.94	80.7	93.3	1257	R
75	1200	230/460/796	444T	OW75-12-444T	\$10,264.57	88.2	93.5	1185	R
	900	230/460/796	445T	OW75-9-445T	\$13,008.85	94.0	93.9	1385	R
100	1200	230/460/796	445T	OW100-12-445T	\$11,605.29	118	92.2	1370	R
	900	230/460/796	447T	OW100-9-447T	\$15,019.70	130	94.9	2033	R
125	1200	230/460/796	447T	OW125-12-447T	\$12,690.50	138	93.5	1766	R
150	1200	230/460/796	449T	OW150-12-449T	\$14,558.71	174	94.5	---	R

R Roller bearing on drive-end for belted applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 7: WORLDWIDE Definite Purpose Motors



Close Coupled Pump Motors

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1-50 HP
- 3600 and 1800 RPM
- 208-230/460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.15 SF
- Class F Insulation
- C-Face with Feet
- Premium Efficiency
- Inverter Duty, 10:1 CT / 20:1 VT (1.0 SF)
- Spike Resistant Wire, per NEMA MG-1, Part 31
- Class 1, Division 2, Groups A, B, C, D
- Suitable for 50 Hz Operation with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143JM	PEWWE1-18-143JM	\$440.49	1.5	85.5	41	
	1800	208-230/460	143JP	PEWWE1-18-143JP	\$440.49	1.5	85.5	41	
1.5	3600	208-230/460	143JM	PEWWE1.5-36-143JM	\$478.57	2.0	84.0	46	
	3600	208-230/460	143JP	PEWWE1.5-36-143JP	\$478.57	2.0	84.0	46	
	1800	208-230/460	145JM	PEWWE1.5-18-145JM	\$493.74	2.2	86.5	56	
	1800	208-230/460	145JP	PEWWE1.5-18-145JP	\$493.74	2.2	86.5	56	
2	3600	208-230/460	145JM	PEWWE2-36-145JM	\$514.96	2.6	85.5	51	
	3600	208-230/460	145JP	PEWWE2-36-145JP	\$514.96	2.6	85.5	51	
	1800	208-230/460	145JM	PEWWE2-18-145JM	\$513.40	2.9	86.5	59	
	1800	208-230/460	145JP	PEWWE2-18-145JP	\$513.40	2.9	86.5	59	
3	3600	208-230/460	145JM	PEWWE3-36-145JM	\$672.29	3.8	86.5	57	
	3600	208-230/460	145JP	PEWWE3-36-145JP	\$672.29	3.8	86.5	57	
	3600	208-230/460	182JM	PEWWE3-36-182JM	\$672.29	3.8	86.5	81	
	3600	208-230/460	182JP	PEWWE3-36-182JP	\$672.29	3.8	86.5	81	
	1800	208-230/460	182JM	PEWWE3-18-182JM	\$831.35	4.0	89.5	86	
	1800	208-230/460	182JP	PEWWE3-18-182JP	\$831.35	4.0	89.5	86	
5	3600	208-230/460	184JM	PEWWE5-36-184JM	\$784.63	6.0	88.5	96	
	3600	208-230/460	184JP	PEWWE5-36-184JP	\$784.63	6.0	88.5	96	
	1800	208-230/460	184JM	PEWWE5-18-184JM	\$887.95	6.3	89.5	104	
	1800	208-230/460	184JP	PEWWE5-18-184JP	\$887.95	6.3	89.5	104	
7.5	3600	208-230/460	184JM	PEWWE7.5-36-184JM	\$1,354.42	8.8	89.5	105	
	3600	208-230/460	184JP	PEWWE7.5-36-184JP	\$1,354.42	8.8	89.5	105	
	3600	208-230/460	213JM	PEWWE7.5-36-213JM	\$1,354.42	9.0	89.5	160	
	3600	208-230/460	213JP	PEWWE7.5-36-213JP	\$1,354.42	9.0	89.5	160	
	1800	208-230/460	213JM	PEWWE7.5-18-213JM	\$1,313.71	9.1	91.7	172	
	1800	208-230/460	213JP	PEWWE7.5-18-213JP	\$1,313.71	9.1	91.7	172	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 7: WORLDWIDE Definite Purpose Motors



Close Coupled Pump Motors (Cont.)

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
10	3600	208-230/460	215JM	PEWWE10-36-215JM	\$1,435.12	11.7	90.2	180	
	3600	208-230/460	215JP	PEWWE10-36-215JP	\$1,435.12	11.7	90.2	180	
	1800	208-230/460	215JM	PEWWE10-18-215JM	\$1,438.11	12.0	91.7	193	
	1800	208-230/460	215JP	PEWWE10-18-215JP	\$1,438.11	12.0	91.7	193	
15	3600	208-230/460	215JM	PEWWE15-36-215JM	\$2,099.89	17.3	91.0	190	
	3600	208-230/460	215JP	PEWWE15-36-215JP	\$2,099.89	17.3	91.0	190	
	3600	208-230/460	254JM	PEWWE15-36-254JM	\$2,099.89	17.5	91.0	261	
	3600	208-230/460	254JP	PEWWE15-36-254JP	\$2,099.89	17.5	91.0	261	
	1800	208-230/460	254JM	PEWWE15-18-254JM	\$2,057.70	18.1	92.4	265	
	1800	208-230/460	254JP	PEWWE15-18-254JP	\$2,057.70	18.1	92.4	265	
20	3600	208-230/460	256JM	PEWWE20-36-256JM	\$2,266.40	23.1	91.0	297	
	3600	208-230/460	256JP	PEWWE20-36-256JP	\$2,266.40	23.1	91.0	297	
	1800	208-230/460	256JM	PEWWE20-18-256JM	\$2,324.45	23.7	93.0	304	
	1800	208-230/460	256JP	PEWWE20-18-256JP	\$2,324.45	23.7	93.0	304	
25	3600	208-230/460	256JM	PEWWE25-36-256JM	\$2,723.99	28.7	91.7	309	
	3600	208-230/460	256JP	PEWWE25-36-256JP	\$2,723.99	28.7	91.7	309	
	3600	208-230/460	284JM	PEWWE25-36-284JM	\$2,723.99	29.0	91.7	358	
	3600	208-230/460	284JP	PEWWE25-36-284JP	\$2,723.99	29.0	91.7	358	
	1800	208-230/460	284JM	PEWWE25-18-284JM	\$2,890.60	29.1	93.6	385	
	1800	208-230/460	284JP	PEWWE25-18-284JP	\$2,890.60	29.1	93.6	385	
30	3600	208-230/460	286JM	PEWWE30-36-286JM	\$2,892.12	34.4	91.7	394	
	3600	208-230/460	286JP	PEWWE30-36-286JP	\$2,892.12	34.4	91.7	394	
	1800	208-230/460	286JM	PEWWE30-18-286JM	\$3,110.11	34.5	93.6	430	
	1800	208-230/460	286JP	PEWWE30-18-286JP	\$3,110.11	34.5	93.6	430	
40	3600	208-230/460	286JM	PEWWE40-36-286JM	\$4,145.82	45.5	92.4	419	
	3600	208-230/460	286JP	PEWWE40-36-286JP	\$4,145.82	45.5	92.4	419	
	3600	208-230/460	324JM	PEWWE40-36-324JM	\$3,908.86	46.1	92.4	485	
	3600	208-230/460	324JP	PEWWE40-36-324JP	\$3,908.86	46.1	92.4	485	
	1800	208-230/460	324JM	PEWWE40-18-324JM	\$3,908.86	46.3	94.1	531	
	1800	208-230/460	324JP	PEWWE40-18-324JP	\$3,908.86	46.3	94.1	531	
50	3600	208-230/460	326JM	PEWWE50-36-326JM	\$4,598.89	56.6	93.0	534	
	3600	208-230/460	326JP	PEWWE50-36-326JP	\$4,598.89	56.6	93.0	534	
	1800	208-230/460	326JM	PEWWE50-18-326JM	\$4,641.29	57.6	94.5	578	
	1800	208-230/460	326JP	PEWWE50-18-326JP	\$4,641.29	57.6	94.5	578	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 7: WORLDWIDE Definite Purpose Motors



Close Coupled Pump Motors

ODP Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1-50 HP
- 3600 and 1800 RPM
- 208-230/460 Volt
- Open Drip Proof (ODP) Enclosure
- Rolled Steel Frame
- IP23 Protection
- 1.15 SF
- Class F Insulation
- C-Face with Feet
- Premium Efficiency
- Inverter Duty, 10:1 VT
- Spike Resistant Wire, per NEMA MG-1, Part 31
- Suitable for 50 Hz Operation with 1.0 SF



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143JM	OCCP1-18-143JM	\$416.12	1.3	85.5	33.1	
	1800	208-230/460	143JP	OCCP1-18-143JP	\$416.12	1.3	85.5	33.1	
1.5	3600	208-230/460	143JM	OCCP1.5-36-143JM	\$430.70	1.9	84.0	34	
	3600	208-230/460	143JP	OCCP1.5-36-143JP	\$430.70	1.9	84.0	34	
	1800	208-230/460	145JM	OCCP1.5-18-145JM	\$446.99	2.1	86.5	34.2	
	1800	208-230/460	145JP	OCCP1.5-18-145JP	\$446.99	2.1	86.5	34.2	
2	3600	208-230/460	145JM	OCCP2-36-145JM	\$467.69	2.5	85.5	35	
	3600	208-230/460	145JP	OCCP2-36-145JP	\$467.69	2.5	85.5	35	
	1800	208-230/460	145JM	OCCP2-18-145JM	\$474.36	2.7	86.5	38.6	
	1800	208-230/460	145JP	OCCP2-18-145JP	\$474.36	2.7	86.5	38.6	
3	3600	208-230/460	145JM	OCCP3-36-145JM	\$579.15	3.6	85.5	42	
	3600	208-230/460	145JP	OCCP3-36-145JP	\$579.15	3.6	85.5	42	
	1800	208-230/460	182JM	OCCP3-18-182JM	\$602.27	3.8	89.5	68.3	
	1800	208-230/460	182JP	OCCP3-18-182JP	\$602.27	3.8	89.5	68.3	
5	3600	208-230/460	182JM	OCCP5-36-182JM	\$686.46	5.9	86.5	66	
	3600	208-230/460	182JP	OCCP5-36-182JP	\$686.46	5.9	86.5	66	
	1800	208-230/460	184JM	OCCP5-18-184JM	\$685.03	6.2	89.5	96.8	
	1800	208-230/460	184JP	OCCP5-18-184JP	\$685.03	6.2	89.5	96.8	
7.5	3600	208-230/460	184JM	OCCP7.5-36-184JM	\$1,069.77	8.6	88.5	99	
	3600	208-230/460	184JP	OCCP7.5-36-184JP	\$1,069.77	8.6	88.5	99	
	1800	208-230/460	213JM	OCCP7.5-18-213JM	\$1,083.11	9.4	91.0	140.2	
	1800	208-230/460	213JP	OCCP7.5-18-213JP	\$1,083.11	9.4	91.0	140.2	
10	3600	208-230/460	213JM	OCCP10-36-213JM	\$1,240.81	11.8	89.5	143	
	3600	208-230/460	213JP	OCCP10-36-213JP	\$1,240.81	11.8	89.5	143	
	1800	208-230/460	215JM	OCCP10-18-215JM	\$1,172.82	12.2	91.7	160.6	
	1800	208-230/460	215JP	OCCP10-18-215JP	\$1,172.82	12.2	91.7	160.6	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Section 7: WORLDWIDE Definite Purpose Motors



Close Coupled Pump Motors (Cont.)

ODP Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
15	3600	208-230/460	215JM	OCCP15-36-215JM	\$1,587.43	16.9	90.2	144	
	3600	208-230/460	215JP	OCCP15-36-215JP	\$1,587.43	16.9	90.2	144	
	1800	208-230/460	254JM	OCCP15-18-254JM	\$1,762.59	17.1	93.0	214.9	
	1800	208-230/460	254JP	OCCP15-18-254JP	\$1,762.59	17.1	93.0	214.9	
20	3600	208-230/460	254JM	OCCP20-36-254JM	\$1,860.21	22.1	91.0	247	
	3600	208-230/460	254JP	OCCP20-36-254JP	\$1,860.21	22.1	91.0	247	
	1800	208-230/460	256JM	OCCP20-18-256JM	\$1,967.25	22.5	93.0	260.1	
	1800	208-230/460	256JP	OCCP20-18-256JP	\$1,967.25	22.5	93.0	260.1	
25	3600	208-230/460	256JM	OCCP25-36-256JM	\$2,392.78	27.0	91.7	270	
	3600	208-230/460	256JP	OCCP25-36-256JP	\$2,392.78	27.0	91.7	270	
	1800	208-230/460	284JM	OCCP25-18-284JM	\$2,553.44	30.0	93.6	305	
	1800	208-230/460	284JP	OCCP25-18-284JP	\$2,553.44	30.0	93.6	305	
30	3600	208-230/460	284JM	OCCP30-36-284JM	\$2,537.54	33.2	92.5	330	
	3600	208-230/460	284JP	OCCP30-36-284JP	\$2,537.54	33.2	92.5	330	
	1800	208-230/460	286JM	OCCP30-18-286JM	\$2,833.51	35.9	94.1	335	
	1800	208-230/460	286JP	OCCP30-18-286JP	\$2,833.51	35.9	94.1	335	
40	3600	208-230/460	286JM	OCCP40-36-286JM	\$3,344.57	45.4	92.4	340	
	3600	208-230/460	286JP	OCCP40-36-286JP	\$3,344.57	45.4	92.4	340	
	1800	208-230/460	324JM	OCCP40-18-324JM	\$3,650.60	47.9	94.1	445	
	1800	208-230/460	324JP	OCCP40-18-324JP	\$3,650.60	47.9	94.1	445	
50	3600	208-230/460	324JM	OCCP50-36-324JM	\$3,813.01	56.1	93.0	407	
	3600	208-230/460	324JP	OCCP50-36-324JP	\$3,813.01	56.1	93.0	407	
	1800	208-230/460	326JM	OCCP50-18-326JM	\$3,874.99	58.8	94.5	475	
	1800	208-230/460	326JP	OCCP50-18-326JP	\$3,874.99	58.8	94.5	475	

7

WORLDWIDE
Definite Purpose

Vertical Hollow Shaft Motors

WPI Enclosure ▪ Vertical P Base ▪ Three-Phase ▪ 230/460 Volt

Product Specifications

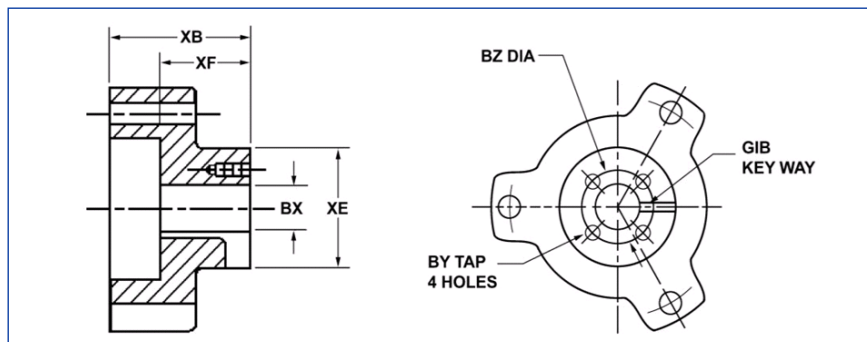
- 10 - 300 HP
- 1800 RPM
- 230/460 Volt (10 - 75 HP)
- 460 Volt PWS (100 - 300 HP)
- Weather Protected (WPI) Enclosure with Rodent Screens
- IP23 Protection
- 1.15 SF
- Class F Insulation
- Vertical P Base
- Premium Efficiency
- Inverter Duty, 10:1 Variable Torque
- Spike Resistant Wiring per NEMA MG-1 Part 31
- 120 Volt Space Heaters
- Double Thrust Bearing Design (100-300 HP) for Deeper Well Applications
- Winding RTDs (125-300 HP)
- White Epoxy Paint for Cooler Surface Temperature
- Standard Coupling Size Included



HP	RPM	Voltage	Frame	Base Size	Model Number	List Price	Down Thrust	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Included Coupling
10	1800	230/460	215TP	10	WPEVHS10-18-215TP-10	\$2,529.87	2500	12.2	91.7	240	MC210-1
15	1800	230/460	254TP	10	WPEVHS15-18-254TP-10	\$3,157.08	3200	17.3	93.0	417	MC250-1
20	1800	230/460	256TP	10	WPEVHS20-18-256TP-10	\$3,595.13	3200	23.5	93.0	434	MC250-1
25	1800	230/460	284TP	12	WPEVHS25-18-284TP-12	\$4,311.95	3200	28.8	93.6	483	MC280-1
30	1800	230/460	286TP	12	WPEVHS30-18-286TP-12	\$4,555.31	3200	34.0	94.1	507	MC280-1
40	1800	230/460	324TP	16.5	WPEVHS40-18-324TP-16.5	\$5,682.52	5500	46.0	94.1	646	MC320-1.25-.25
50	1800	230/460	326TP	16.5	WPEVHS50-18-326TP-16.5	\$6,153.76	5500	56.4	94.5	697	MC320-1.25-.25
	1800	460	326TP	16.5	WPEVHS50-18-326TP-16.5-460 PWS	\$6,153.76	5500	56.4	94.5	697	MC320-1.25-.25
60	1800	230/460	364TP	16.5	WPEVHS60-18-364TP-16.5	\$7,018.81	5600	68.3	95.0	853	MC360-1.25-.25
	1800	460	364TP	16.5	WPEVHS60-18-364TP-16.5-460 PWS	\$7,018.81	5600	68.3	95.0	853	MC360-1.25-.25
75	1800	230/460	365TP	16.5	WPEVHS75-18-365TP-16.5	\$8,698.01	5600	85.0	95.0	893	MC360-1.25-.25
	1800	460	365TP	16.5	WPEVHS75-18-365TP-16.5-460 PWS	\$8,698.01	5600	85.0	95.0	893	MC360-1.25-.25
100	1800	460	404TP	16.5	WPEVHS100-18-460-404TP-DB16.5	\$11,997.79	10720	112	95.4	1292	MC400-1.5
125	1800	460	405TP	16.5	WPEVHS125-18-460-405TP-DB16.5	\$12,891.59	12060	139	95.4	1360	MC400-1.5
150	1800	460	444TP	16.5	WPEVHS150-18-460-444TP-DB16.5	\$15,459.07	14400	165	95.8	1793	MC440-1.6875
200	1800	460	445TP	20	WPEVHS200-18-460-445TP-DB20	\$21,508.85	14400	221	95.8	1969	MC440-1.6875
250	1800	460	445TP	20	WPEVHS250-18-460-445TP-DB20	\$22,810.84	14400	276	95.8	2097	MC440(250)-1.6875
300	1800	460	5006P	20	WPEVHS300-18-460-5006P-DB20	\$37,535.40	24000	---	---	3278	MC5006-1.6875

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

Vertical Hollow Shaft Motors (Cont.) WVHS Couplings



HP	Frame	Model Number	BX	BY	BZ	XB	XE	XF	SQ (EW)	List Price
10	215TP	MC210-.75	3/4	10-32	1-3/8	1-3/4	2	1-1/8	3/16	\$120.58
		MC210-.875	7/8	10-32	1-3/8	1-3/4	2	1-1/8	3/16	
		MC210-1 *	1	10-32	1-3/8	1-3/4	2	1-1/8	1/4	
15-20	254TP 256TP	MC250-.75	3/4	10-32	1-3/8	2-9/16	2-1/4	1-5/8	3/16	\$143.81
		MC250-.875	7/8	10-32	1-3/8	2-9/16	2-1/4	1-5/8	3/16	
		MC250-1 *	1	10-32	1-3/8	2-9/16	2-1/4	1-5/8	1/4	
		MC250-1.1875	1-3/16	1/4-20	1-3/4	2-9/16	2-1/4	1-5/8	1/4	
		MC250-1.25	1-1/4	1/4-20	1-3/4	2-9/16	2-1/4	1-5/8	1/4	
		MC250-1.25-375	1-1/4	1/4-20	1-3/4	2-9/16	2-1/4	1-5/8	3/8	
25-30	284TP 286TP	MC280-.75	3/4	10-32	1-3/8	2-9/16	2-1/4	1-5/8	3/16	\$143.81
		MC280-.875	7/8	10-32	1-3/8	2-9/16	2-1/4	1-5/8	3/16	
		MC280-1 *	1	10-32	1-3/8	2-9/16	2-1/4	1-5/8	1/4	
		MC280-1.1875	1-3/16	1/4-20	1-3/4	2-9/16	2-1/4	1-5/8	1/4	
		MC280-1.25-.25	1-1/4	1/4-20	1-3/4	2-9/16	2-1/4	1-5/8	1/4	
		MC280-1.25-.375	1-1/4	1/4-20	1-3/4	2-9/16	2-1/4	1-5/8	3/8	
40-50	324TP 326TP	MC320-1	1	10-32	1-3/8	2-15/16	2-7/8	1-15/16	1/4	\$167.04
		MC320-1.1875	1-3/16	1/4-20	1-3/4	2-15/16	2-7/8	1-15/16	1/4	
		MC320-1.25-.375	1-1/4	1/4-20	1-3/4	2-15/16	2-7/8	1-15/16	3/8	
		MC320-1.25-.25 *	1-1/4	1/4-20	1-3/4	2-15/16	2-7/8	1-15/16	1/4	
		MC320-1.4375	1-7/16	1/4-20	2-1/8	2-15/16	2-7/8	1-15/16	3/8	
		MC320-1.5	1-1/2	1/4-20	2-1/8	2-15/16	2-7/8	1-15/16	3/8	
60-75	364TP 365TP	MC360-1	1	10-32	1-3/8	2-15/16	2-7/8	1-15/16	1/4	\$191.37
		MC360-1.1875	1-3/16	1/4-20	1-3/4	2-15/16	2-7/8	1-15/16	1/4	
		MC360-1.25-.25 *	1-1/4	1/4-20	1-3/4	2-15/16	2-7/8	1-15/16	1/4	
		MC360-1.25-.375	1-1/4	1/4-20	1-3/4	2-15/16	2-7/8	1-15/16	3/8	
		MC360-1.4375	1-7/16	1/4-20	2-1/8	2-15/16	2-7/8	1-15/16	3/8	
		MC360-1.5	1-1/2	1/4-20	2-1/8	2-15/16	2-7/8	1-15/16	3/8	
100-125	404TP 405TP	MC400-1.1875	1-3/16	1/4-20	1-3/4	3-13/32	3-1/8	2-13/32	1/4	\$286.50
		MC400-1.25-.25	1-1/4	1/4-20	1-3/4	3-13/32	3-1/8	2-13/32	1/4	
		MC400-1.25-.375	1-1/4	1/4-20	1-3/4	3-13/32	3-1/8	2-13/32	3/8	
		MC400-1.4375	1-7/16	1/4-20	2-1/8	3-13/32	3-1/8	2-13/32	3/8	
		MC400-1.5 *	1-1/2	1/4-20	2-1/8	3-13/32	3-1/8	2-13/32	3/8	
		MC400-1.5625	1-9/16	1/4-20	2-1/2	3-13/32	3-1/8	2-13/32	3/8	
		MC400-1.6875	1-11/16	1/4-20	2-1/2	3-13/32	3-1/8	2-13/32	3/8	
		MC400-1.8125	1-13/16	1/4-20	2-1/2	3-13/32	3-1/8	2-13/32	3/8	
150-200	444TP 445TP	MC440-1.4375	1-7/16	1/4-20	2-1/8	4.2	3-11/16	2.95	3/8	\$405.97
		MC440-1.5	1-1/2	1/4-20	2-1/8	4.2	3-11/16	2.95	3/8	
		MC440-1.6875 *	1-11/16	1/4-20	2-1/2	4.2	3-11/16	2.95	3/8	
		MC440-1.75	1-3/4	1/4-20	2-1/2	4.2	3-11/16	2.95	3/8	
		MC440-1.9375	1-15/16	1/4-20	2-1/2	4.2	3-11/16	2.95	1/2	
		MC440-2.1875	2-3/16	3/8-16	2-1/4	4.2	3-11/16	2.95	1/2	
250	445TP	MC440(250)-1.6875 *	1-11/16	1/4-20	2-1/2	4.2	3-11/16	2.95	3/8	\$405.97
300-350	5006TP	MC5006-1.5	1-1/2	1/4-20	2-1/2	4.37	4-3/4	3.07	3/8	\$704.65
		MC5006-1.6875 *	1-11/16	1/4-20	2-1/2	4.37	4-3/4	3.07	3/8	
		MC5006-1.75	1-3/4	1/4-20	2-1/2	4.37	4-3/4	3.07	3/8	
		MC5006-1.18125	1-13/16	1/4-20	2-1/2	4.37	4-3/4	3.07	3/8	
		MC5006-1.9375	1-15/16	1/4-20	2-1/2	4.37	4-3/4	3.07	3/8	

* Standard coupling size included with each motor

HYUNDAI Crown Triton™ Series Motors - Severe Duty

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 1-250 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 Volt (1-125 HP)
- 460 Volt (150-600 HP)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- Dual Rated SF
1.15 for 40°C / 1.0 for 65°C
- Class F Insulation
with Class N Varnish
- Rigid Base
- Premium Efficiency
- NEMA Design B
- Inverter Ready, 10:1 CT / 20:1 VT
- Inverter Shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection
- Cast Iron Frame and Conduit Box
- Suitable for Part Winding Start on Low Voltage (1-125 HP)
- Suitable for Wye-Delta Start (15-250 HP)
- Double Drilled Feet to Accommodate Mounting Flexibility (324T-445T)
- F2 Field Convertible (HHI Models Only)
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143T	HHI1-18-143T	\$486.73	1.6	85.5	53	
	1200	208-230/460	145T	HHI1-12-145T	\$590.71	1.8	82.5	55	
1.5	3600	208-230/460	143T	HHI1.5-36-143T	\$527.65	2.0	84.0	53	
	1800	208-230/460	145T	HHI1.5-18-145T	\$535.40	2.2	86.5	55	
	1200	208-230/460	182T	HHI1.5-12-182T	\$632.74	2.3	87.5	90	
2	3600	208-230/460	145T	HHI2-36-145T	\$574.12	2.6	85.5	55	
	1800	208-230/460	145T	HHI2-18-145T	\$662.61	3.0	86.5	55	
	1200	208-230/460	184T	HHI2-12-184T	\$779.87	3.0	88.5	105	
	3600	208-230/460	182T	HHI3-36-182T	\$734.51	3.8	86.5	90	
3	1800	208-230/460	182T	HHI3-18-182T	\$723.45	3.9	89.5	90	
	1200	208-230/460	213T	HHI3-12-213T	\$1,112.83	4.5	89.5	150	
5	3600	208-230/460	184T	HHI5-36-184T	\$858.41	6.1	88.5	105	
	1800	208-230/460	184T	HHI5-18-184T	\$821.90	6.5	89.5	105	
	1200	208-230/460	215T	HHI5-12-215T	\$1,308.63	7.4	89.5	165	
7.5	3600	208-230/460	213T	HHI7.5-36-213T	\$1,154.87	9.0	89.5	150	
	1800	208-230/460	213T	HHI7.5-18-213T	\$1,109.51	9.5	91.7	150	
	1200	208-230/460	254T	HHI7.5-12-254T	\$1,990.04	10.3	91.0	260	
10	3600	208-230/460	215T	HHI10-36-215T	\$1,308.63	12.0	90.2	165	
	1800	208-230/460	215T	HHI10-18-215T	\$1,337.39	12.8	91.7	165	
	1200	208-230/460	256T	HHI10-12-256T	\$2,359.51	13.8	91.0	300	
15	3600	208-230/460	254T	HHI15-36-254T	\$2,162.61	16.9	91.7	260	
	1800	208-230/460	254T	HHI15-18-254T	\$2,015.49	18.3	92.4	260	
	1200	208-230/460	284T	HHI15-12-284T	\$3,278.76	19.8	91.7	380	
20	3600	208-230/460	256T	HHI20-36-256T	\$2,384.96	23.1	91.7	300	
	1800	208-230/460	256T	HHI20-18-256T	\$2,362.83	24.8	93.0	300	
	1200	208-230/460	286T	HHI20-12-286T	\$3,862.83	26.7	91.7	410	
25	3600	208-230/460	284T	HHI25-36-284T	\$3,561.95	28.5	91.7	380	
	3600	208-230/460	284TS	HHI25-36-284TS	\$2,949.12	28.5	91.7	380	
	1800	208-230/460	284T	HHI25-18-284T	\$2,865.04	30.3	93.6	380	
	1800	208-230/460	284TS	HHI25-18-284TS	\$2,865.04	30.3	93.6	380	
	1200	208-230/460	324T	HHI25-12-324T	\$4,597.35	31.2	93.0	550	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty (Cont.)

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
30	3600	208-230/460	286T	HHI30-36-286T	\$4,182.52	33.8	91.7	410	
	3600	208-230/460	286TS	HHI30-36-286TS	\$3,462.39	33.8	91.7	410	
	1800	208-230/460	286T	HHI30-18-286T	\$3,200.22	36.0	93.6	410	
	1800	208-230/460	286TS	HHI30-18-286TS	\$3,200.22	36.0	93.6	410	
	1200	208-230/460	326T	HHI30-12-326T	\$5,194.69	37.1	93.0	560	
40	3600	208-230/460	324T	HHI40-36-324T	\$5,351.77	45.5	92.4	530	
	3600	208-230/460	324TS	HHI40-36-324TS	\$4,430.31	45.5	92.4	530	
	1800	208-230/460	324T	HHI40-18-324T	\$4,277.65	48.8	94.1	626	
	1800	208-230/460	324TS	HHI40-18-324TS	\$4,277.65	48.8	94.1	626	
	1200	208-230/460	364T	HHI40-12-364T	\$7,676.99	48.8	94.1	780	
50	3600	208-230/460	326T	HHI50-36-326T	\$6,340.71	55.8	93.0	540	
	3600	208-230/460	326TS	HHI50-36-326TS	\$5,250.00	55.8	93.0	540	
	1800	208-230/460	326T	HHI50-18-326T	\$5,421.46	59.9	94.5	620	
	1800	208-230/460	326TS	HHI50-18-326TS	\$5,421.46	59.9	94.5	620	
	1200	208-230/460	365T	HHI50-12-365T	\$9,038.72	60.2	94.1	840	
60	3600	208-230/460	364T	HHI60-36-364T	\$9,214.60	65.6	94.1	780	
	3600	208-230/460	364TS	HHI60-36-364TS	\$7,628.32	65.6	94.1	780	
	1800	208-230/460	364T	HHI60-18-364T	\$7,863.94	69.9	95.0	780	
	1800	208-230/460	364TS	HHI60-18-364TS	\$7,863.94	69.9	95.0	780	
	1200	208-230/460	404T	HHI60-12-404T	\$10,344.00	71.2	94.5	1120	R
75	3600	208-230/460	365T	HHI75-36-365T	\$10,688.05	79.8	94.5	820	
	3600	208-230/460	365TS	HHI75-36-365TS	\$8,848.45	79.8	94.5	820	
	1800	208-230/460	365T	HHI75-18-365T	\$9,136.06	85.1	95.4	820	
	1800	208-230/460	365TS	HHI75-18-365TS	\$9,136.06	85.1	95.4	820	
	1200	208-230/460	405T	HHI75-12-405T	\$12,474.56	87.0	94.5	1220	R
100	3600	208-230/460	405TS	HHI100-36-405TS	\$11,870.58	110.1	94.5	1110	
	1800	208-230/460	405T	HHI100-18-405T	\$12,013.27	114.1	95.4	1110	R
	1800	208-230/460	405T	HHI100-18-405TBB	\$12,013.27	114.1	95.4	1110	BB
	1800	208-230/460	405TS	HHI100-18-405TSBB	\$12,013.27	114.1	95.4	1110	BB
	1200	208-230/460	444T	HHI100-12-444T	\$14,993.36	116.6	95.0	1530	R
125	3600	208-230/460	444TS	HHI125-36-444TS	\$16,330.75	139.5	95.0	1610	
	1800	208-230/460	444T	HHI125-18-444T	\$15,521.02	142.0	95.4	1530	R
	1800	208-230/460	444T	HHI125-18-444TBB	\$15,521.02	142.0	95.4	1530	BB
	1800	208-230/460	444TS	HHI125-18-444TSBB	\$15,521.02	142.0	95.4	1530	BB
	1200	208-230/460	445T	HHI125-12-445T	\$17,674.78	147.7	95.0	1700	R
150	3600	460	445TS	HHI150-36-445TS	\$18,539.82	161.5	95.0	1770	
	1800	460	445T	HHI150-18-445T	\$17,945.80	163.8	95.8	1700	R
	1800	460	445T	HHI150-18-445TBB	\$17,945.80	163.8	95.8	1700	BB
	1800	460	445TS	HHI150-18-445TSBB	\$17,945.80	163.8	95.8	1700	BB
	1200	460	447T	HHI150-12-447T	\$20,618.36	169.5	95.8	1860	R
	1200	460	447T	HHI150-12-447T-IB	\$22,807.52	169.5	95.8	1860	IB R
	1200	460	447TS	HHI150-12-447TSBB	\$20,618.36	169.5	95.8	1860	BB

BB Ball bearing on drive-end for direct coupled applications
 IB Insulated opposite drive-end bearing installed
 R Roller bearing on drive end for belted applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty (Cont.)

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
200	3600	460	447TS	HHI200-36-447TS	\$23,071.90	219.3	95.4	1900	
	1800	460	447T	HHI200-18-447T	\$20,777.65	222.4	96.2	1860	R
	1800	460	447T	HHI200-18-447T-IB	\$24,776.55	222.4	96.2	1860	IB R
	1800	460	447T	HHI200-18-447TBB	\$20,777.65	222.4	96.2	1860	BB
	1800	460	447T	HHI200-18-447TBB-IB	\$24,776.55	222.4	96.2	1860	BB IB
	1800	460	447TS	HHI200-18-447TSBB	\$20,777.65	222.4	96.2	1860	BB
	1200	460	449T	HHI200-12-449T	\$24,772.12	231.2	95.8	2430	R
	1200	460	449T	HHI200-12-449T-IB	\$28,964.60	231.2	95.8	2430	IB R
	1200	460	449TS	HHI200-12-449TSBB	\$24,772.12	231.2	95.8	2430	BB
250	3600	460	449TS	HHI250-36-449TS	\$31,098.45	276.6	95.8	2430	
	1800	460	449T	HHI250-18-449T	\$26,753.32	281.7	96.2	2430	R
	1800	460	449T	HHI250-18-449TBB	\$26,753.32	281.7	96.2	2430	BB
	1800	460	449TS	HHI250-18-449TSBB	\$26,753.32	281.7	96.2	2430	BB

HHI Motor C-Flange Kits		
Frame Size	Model Number	List Price
143T / 145T	H140TC	\$99.56
182T / 184T	H180TC	\$122.79
213T / 215T	H210TC	\$164.82
254T / 256T	H250TC	\$334.07
284T / 286T	H280TC	\$381.64
324T / 326T	H320TC	\$536.50
364T / 365T (2 Pole)	H3602PTC	\$925.88
364T / 365T (4/6 Pole)	H360TC	\$794.25
404T / 405T (2 Pole)	H4002PTC	\$756.64
404T / 405T (4/6 Pole)	H400TC	\$1,259.96
444T / 445T (2 Pole)	H4402PTC	\$1,405.97
444T / 445T (4/6 Pole)	H440TC	\$925.88
447T (2 Pole)	H4402PTC	\$1,405.97
447T (4/6 Pole)	H447TC	\$925.88
449T (2 Pole)	H4402PTC	\$1,405.97
449T (4/6 Pole)	H449TC	\$925.88

HHI Motor D-Flange Kits		
Frame Size	Model Number	List Price
143T / 145T	H140TD	\$108.41
182T / 184T	H180TD	\$112.10
213T / 215T	---	---
254T / 256T	H250TD	\$367.26
284T / 286T	H280TD	\$423.67
324T / 326T	H320TD	\$587.39
364T / 365T (2 Pole)	H3602PTD	\$831.86
364T / 365T (4/6 Pole)	H360TD	\$875.00
404T / 405T (2 Pole)	H4002PTD	\$1,019.91
404T / 405T (4/6 Pole)	H400TD	\$1,019.91
444T / 445T (2 Pole)	H4402PTD	\$1,546.46
444T / 445T (4/6 Pole)	H445TD	\$1,387.17
447T (2 Pole)	H4402PTD	\$1,546.46
447T (4/6 Pole)	H449TD	\$1,387.17
449T (2 Pole)	H4402PTD	\$1,546.46
449T (4/6 Pole)	H449TD	\$1,387.17

Helwig Carbon® The Bearing Protector™

- For use on Hyundai Crown Triton™ Series Motors
- Divert current from motor shaft
- Provides lowest resistant path to ground
- Easy to install - Simply remove top two bearing cap bolts
- Includes integral bracket for easy mounting

Frame Size	Model Number	List Price
364T / 365T / 444/5TS / 445/7TS / 449TS	SGK-HHI-364/5T-440TS	\$1,382.74
404 / 405T	SGK-HHI-404/5T	\$1,382.74
444T / 445T / 447T / 449T	SGK-HHI-440T	\$1,382.74



* Installation of this product will result in loss of Class I Division 2 Classification from motor - please contact WWE for new motor nameplate at a cost of \$25 net.

BB Ball bearing on drive-end for direct coupled applications
 IB Insulated opposite drive-end bearing installed
 R Roller bearing on drive end for belted applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty Large Frame

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 460 Volt

Product Specifications

- 250-600 HP
- 3600, 1800 and 1200 RPM
- Single Voltage, 460 Volt
- Dual Frequency Rated 50/60 Hz Nameplate
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- 1.15 SF, 40°C Ambient
- Class F Insulation with Class N Varnish
- Class B Temperature Rise
- Rigid Base
- Premium Efficiency
- Cast Iron Frame and Conduit Box
- Heavy Gauge Rolled Steel Fan Cover
- Ground Lug in Terminal Box
- Cast Iron Inner Bearing Caps
- Double Drilled Feet
- Bi-Directional for 1800 and 1200 RPM Ratings
- Uni-Directional (CCW) for 3600 RPM Ratings, Each Motor Shipped with Extra Fan for Directional Change
- CSA Certified for Class 1, Division 2, Groups A, B, C, D
- Inverter Duty, 10:1 VT at Full Load / 20:1 VT at 50% Load
- 4:1 CT at Full Load / 10:1 CT for 1 Hour Cycle
- Inverter Shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
250	1200	460	L449T	HSDE250-12-L449T	\$34,469.03	296.3	95.8	2890	R
	1200	460	L449T	HSDE250-12-L449T-IB	\$37,764.38	296.3	95.8	2890	IB R
300	3600	460	L449TS	HSDE300-36-L449TS	\$41,505.53	327.5	95.8	2890	
	1800	460	L449T	HSDE300-18-L449T-IB	\$38,873.89	333.6	96.2	2890	IB R
	1800	460	L449T	HSDE300-18-L449TBB	\$34,164.82	333.6	96.2	2890	BB
	1800	460	L449T	HSDE300-18-L449TBB-IB	\$37,461.28	333.6	96.2	2890	BB IB
	1200	460	L449T	HSDE300-12-L449T	\$35,686.95	350.9	95.8	3290	R
	1200	460	L449T	HSDE300-12-L449T-IB	\$40,396.02	353.9	95.8	3090	IB R
350	3600	460	L449TS	HSDE350-36-L449TS	\$42,753.32	378.5	95.8	3090	
	1800	460	L449T	HSDE350-18-L449TBB-IB	\$44,638.27	385.5	96.2	3090	BB IB
	1200	460	5008	HSDE350-12-5008-IB	\$60,349.56	405.5	95.8	3880	IB R
400	3600	460	L449TS	HSDE400-36-L449TS	\$54,334.07	436.7	95.8	3770	
	3600	460	L449TS	HSDE400-36-L449TS-IBSH	\$54,334.07	436.7	95.8	3770	IB SH
	1800	460	L449T	HSDE400-18-L449T	\$49,676.99	444.8	96.2	3570	R
	1800	460	L449T	HSDE400-18-L449TBB-IBSH	\$55,867.26	444.8	96.2	3570	BB IB SH
	1200	460	5010	HSDE400-12-5010-IBSH	\$67,879.42	467.9	95.8	4760	IB R SH
450	3600	460	5009S	HSDE450-36-5009S-IBSH	\$68,311.95	487.7	95.8	3860	IB SH
	1800	460	5009	HSDE450-18-5009BB-IB	\$62,167.04	491.1	96.2	3970	BB IB
	1800	460	5009	HSDE450-18-5009BB-IBSH	\$63,038.72	491.1	96.2	3970	BB IB SH
	1200	460	5011	HSDE450-12-5011-IB	\$74,591.81	522.5	95.8	4850	IB R
500	3600	460	5010S	HSDE500-36-5010S	\$64,902.65	545.9	95.8	4740	W
	3600	460	5010S	HSDE500-36-5010S-IB	\$66,936.95	545.9	95.8	4740	IB W
	1800	460	5010	HSDE500-18-5010BB-IB	\$66,251.11	549.7	96.2	4760	BB IB W
600	3600	460	5812	HSDE600-36-5812	\$78,014.38	657.8	95.4	6340	
	1800	460	5011	HSDE600-18-5011	\$70,155.97	659.7	96.2	4940	R
700	3600	460	5812	HSDE700-36-5812-IBBRSRSHSP	\$87,123.89	768.4	95.8	6730	IB BR SR SH SP
800	3600	460	5812	HSDE800-36-5812-2IBBRSRSHSPVP	\$101,209.70	883.2	95.8	6730	2IB BR SR SH SP VP

Helwig Carbon® The Bearing Protector™

- For use on Hyundai Crown Triton™ Series Motors
- Divert current from motor shaft
- Provides lowest resistant path to ground
- Easy to install - Simply remove top two bearing cap bolts
- Includes integral bracket for easy mounting

Frame Size	Model Number	List Price
L449T	SGK-HSD-L449T	\$1,382.74
L449TS	SGK-HSD-L449TS	\$1,382.74
5008 / 5009 / 5010 / 5011	SGK-HSD-5000T	\$1,382.74
5008S / 5009S / 5010S / 5011S	SGK-HSD-5000TS	\$1,382.74

* Installation of this product will result in loss of Class I Division 2 Classification from motor - please contact WWE for new motor nameplate at a cost of \$25 net.

- BB Ball bearing on drive-end for direct coupled applications
- IB Insulated opposite drive-end bearing installed
- R Roller bearing on drive-end for belted applications
- SH Space heater installed (120 Volt)
- W Winding RTDs provided (two per phase)
- 2IB Insulated bearings on drive-end and opposite drive-end
- BR Bearing RTDs, 1 per bearing
- SR Winding RTDs, 2 per phase
- SP Special paint color
- VP Vibration provisions

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty

TEFC Enclosure ▪ Rigid Base ▪ Factory F2 Mount ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 30-200 HP
- 1800 and 1200 RPM
- 208-230/460 Volt (30-125 HP)
- 460 Volt (150-200 HP)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- Dual Rated SF
1.15 for 40°C / 1.0 for 65°C
- Class F Insulation
with Class N Varnish
- Rigid Base
- Factory F2 Mount
- Premium Efficiency
- NEMA Design B
- Inverter Ready, 10:1 CT / 20:1 VT
- Inverter Shield Insulation and Inverter Grade
Magnet Wire Meets or Exceeds NEMA
MG-1 Part 31 for Exceptional Corona
and Transient Protection (254T and up)
- Cast Iron Frame and Conduit Box
- Suitable for Part Winding Start
on Low Voltage (30-125 HP)
- Suitable for Wye-Delta Start (30-200 HP)
- Double Drilled Feet to Accommodate
Mounting Flexibility (324T-445T)
- F1 Field Convertible
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
30	1800	208-230/460	286T	HHI30-18-286T-F2	\$3,200.22	36.0	93.6	410	
40	1800	208-230/460	324T	HHI40-18-324T-F2	\$4,277.65	48.8	94.1	626	
50	1800	208-230/460	326T	HHI50-18-326T-F2	\$5,421.46	59.9	94.5	620	
60	1800	208-230/460	364T	HHI60-18-364T-F2	\$7,863.94	69.9	95.0	780	
75	1800	208-230/460	365T	HHI75-18-365T-F2	\$9,136.06	85.1	95.4	820	
	1200	208-230/460	405T	HHI75-12-405T-F2	\$12,474.56	87.0	94.5	1220	R
100	1800	208-230/460	405T	HHI100-18-405T-F2	\$12,013.27	114.1	95.4	1110	R
125	1800	208-230/460	444T	HHI125-18-444T-F2	\$15,521.02	142.0	95.4	1530	R
150	1800	460	445T	HHI150-18-445T-F2	\$17,945.80	163.8	95.8	1700	R
	1200	460	447T	HHI150-12-447T-F2	\$20,618.36	169.5	95.8	1860	R
200	1800	460	447T	HHI200-18-447T-F2	\$20,777.65	222.4	96.2	1860	R
	1200	460	449T	HHI200-12-449T-F2	\$24,772.12	231.2	95.8	2430	R

R Roller bearing on drive end for belted applications

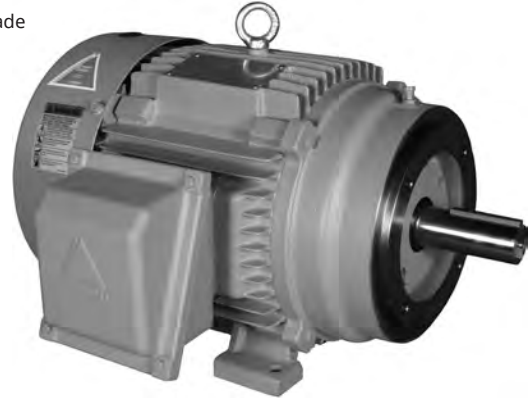
When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 1-200 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 Volt (1-125 HP)
- 460 Volt (150-200 HP)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- Dual Rated SF
1.15 for 40°C / 1.0 for 65°C
- Class F Insulation
with Class N Varnish
- C-Face with Feet
- Premium Efficiency
- NEMA Design B
- Inverter Ready, 10:1 CT / 20:1 VT
- Inverter Shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection (254TC and up)
- Cast Iron Frame and Conduit Box
- Suitable for Part Winding Start on Low Voltage (1-125 HP)
- Suitable for Wye-Delta Start (15-200 HP)
- Double Drilled Feet to Accommodate Mounting Flexibility (324TC-445TC)
- F2 Field Convertible
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143TC	HHI1-18-143TC	\$506.64	1.6	85.5	53	
	1200	208-230/460	145TC	HHI1-12-145TC	\$615.04	1.8	82.5	55	
1.5	3600	208-230/460	143TC	HHI1.5-36-143TC	\$549.78	2.0	84.0	53	
	1800	208-230/460	145TC	HHI1.5-18-145TC	\$557.52	2.2	86.5	55	
2	3600	208-230/460	145TC	HHI2-36-145TC	\$598.45	2.6	85.5	55	
	1800	208-230/460	145TC	HHI2-18-145TC	\$690.27	3.0	86.5	55	
3	3600	208-230/460	182TC	HHI3-36-182TC	\$765.49	3.8	86.5	90	
	1800	208-230/460	182TC	HHI3-18-182TC	\$753.32	3.9	89.5	90	
5	3600	208-230/460	184TC	HHI5-36-184TC	\$893.81	6.1	88.5	105	
	1800	208-230/460	184TC	HHI5-18-184TC	\$856.19	6.5	89.5	105	
	1200	208-230/460	215TC	HHI5-12-215TC	\$1,362.83	7.4	89.5	165	
7.5	3600	208-230/460	213TC	HHI7.5-36-213TC	\$1,203.54	9.0	89.5	150	
	1800	208-230/460	213TC	HHI7.5-18-213TC	\$1,155.97	9.5	91.7	150	
	1200	208-230/460	254TC	HHI7.5-12-254TC	\$2,073.01	10.3	91.0	260	
10	3600	208-230/460	215TC	HHI10-36-215TC	\$1,362.83	12.0	90.2	165	
	1800	208-230/460	215TC	HHI10-18-215TC	\$1,392.70	12.8	91.7	165	
	1200	208-230/460	256TC	HHI10-12-256TC	\$2,457.96	13.8	91.0	300	
15	3600	208-230/460	254TC	HHI15-36-254TC	\$2,252.21	16.9	91.7	260	
	1800	208-230/460	254TC	HHI15-18-254TC	\$2,099.56	18.3	92.4	260	
	1200	208-230/460	284TC	HHI15-12-284TC	\$3,415.93	19.8	91.7	380	
20	3600	208-230/460	256TC	HHI20-36-256TC	\$2,484.51	23.1	91.7	300	
	1800	208-230/460	256TC	HHI20-18-256TC	\$2,461.28	24.8	93.0	300	
	1200	208-230/460	286TC	HHI20-12-286TC	\$4,024.34	26.7	91.7	410	
25	3600	208-230/460	284TSC	HHI25-36-284TSC	\$3,071.90	28.5	91.7	380	
	1800	208-230/460	284TC	HHI25-18-284TC	\$2,984.51	30.3	93.6	380	
	1800	208-230/460	284TSC	HHI25-18-284TSC	\$2,984.51	30.3	93.6	380	
	1200	208-230/460	324TC	HHI25-12-324TC	\$4,788.72	31.2	93.0	550	
30	3600	208-230/460	286TSC	HHI30-36-286TSC	\$3,606.19	33.8	91.7	410	
	1800	208-230/460	286TC	HHI30-18-286TC	\$3,334.07	36.0	93.6	410	
	1200	208-230/460	326TC	HHI30-12-326TC	\$5,411.50	37.1	93.0	560	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty (Cont.)

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
40	1800	208-230/460	324TC	HHI40-18-324TC	\$4,455.75	48.8	94.1	626	
	1200	208-230/460	364TC	HHI40-12-364TC	\$7,996.68	48.8	94.1	780	
50	3600	208-230/460	326TSC	HHI50-36-326TSC	\$5,469.03	55.8	93.0	540	
	1800	208-230/460	326TC	HHI50-18-326TC	\$5,647.12	59.9	94.5	620	
	1200	208-230/460	365TC	HHI50-12-365TC	\$9,414.82	60.2	94.1	840	
60	1800	208-230/460	364TC	HHI60-18-364TC	\$8,191.37	69.9	95.0	780	
	1200	208-230/460	404TC	HHI60-12-404TC	\$10,775.44	71.2	94.5	1120	
75	1800	208-230/460	365TC	HHI75-18-365TC	\$9,516.59	85.1	95.4	820	
	1800	208-230/460	365TSC	HHI75-18-365TSC	\$9,516.59	85.1	95.4	820	
	1200	208-230/460	405TC	HHI75-12-405TC	\$12,994.47	87.0	94.5	1220	
100	3600	208-230/460	405TSC	HHI100-36-405TSC	\$12,365.04	110.1	94.5	1110	
	1800	208-230/460	405TC	HHI100-18-405TC	\$12,514.38	114.1	95.4	1110	
	1800	208-230/460	405TSC	HHI100-18-405TSC	\$12,514.38	114.1	95.4	1110	
	1200	208-230/460	444TC	HHI100-12-444TC	\$15,618.36	116.6	95.0	1530	
125	1800	208-230/460	444TC	HHI125-18-444TC	\$16,168.14	142.0	95.4	1530	
	1800	208-230/460	444TSC	HHI125-18-444TSC	\$16,168.14	142.0	95.4	1530	
	1200	208-230/460	445TC	HHI125-12-445TC	\$18,411.50	147.7	95.0	1700	
150	1800	460	445TC	HHI150-18-445TC	\$18,693.58	163.8	95.8	1700	
	1800	460	445TSC	HHI150-18-445TSC	\$18,693.58	163.8	95.8	1700	
	1200	460	447TC	HHI150-12-447TC	\$21,477.88	169.5	95.8	1860	
200	1800	460	447TC	HHI200-18-447TC	\$21,643.81	222.4	96.2	1860	
	1800	460	447TSC	HHI200-18-447TSC	\$21,643.81	222.4	96.2	1860	
	1200	460	449TC	HHI200-12-449TC	\$25,804.20	231.2	95.8	2430	

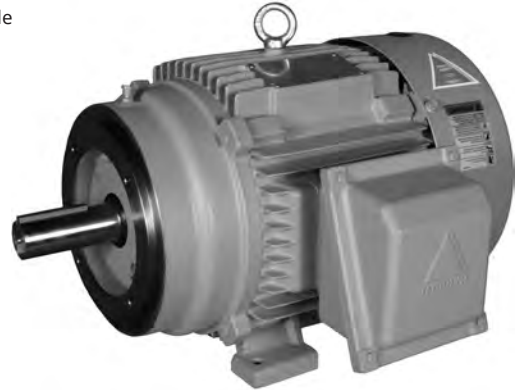
When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty

TEFC Enclosure ▪ C-Face with Feet ▪ Factory F2 Mount ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 25-200 HP
- 1800 RPM
- 208-230/460 Volt (20-125 HP)
- 460 Volt (150-200 HP)
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- Dual Rated SF
1.15 for 40°C / 1.0 for 65°C
- Class F Insulation with Class N Varnish
- C-Face with Feet
- Factory F2 Mount
- Premium Efficiency
- NEMA Design B
- Inverter Ready, 10:1 CT / 20:1 VT
- Inverter shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection (254TC and up)
- Cast Iron Frame and Conduit Box
- Suitable for Part Winding Start on Low Voltage (25-125 HP)
- Suitable for Wye-Delta Start (20-200 HP)
- Double Drilled Feet to Accommodate Mounting Flexibility (324TC-445TC)
- F1 Field Convertible
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
25	1800	208-230/460	284TC	HHI25-18-284TC-F2	\$2,984.51	30.3	93.6	380	
30	1800	208-230/460	286TC	HHI30-18-286TC-F2	\$3,334.07	36.0	93.6	410	
40	1800	208-230/460	324TC	HHI40-18-324TC-F2	\$4,455.75	48.8	94.1	626	
50	1800	208-230/460	326TC	HHI50-18-326TC-F2	\$5,647.12	59.9	94.5	620	
100	1800	208-230/460	405TC	HHI100-18-405TC-F2	\$12,514.38	114.1	95.4	1110	
	1800	208-230/460	405TSC	HHI100-18-405TSC-F2	\$12,514.38	114.1	95.4	1110	
125	1800	208-230/460	444TC	HHI125-18-444TC-F2	\$16,168.14	142.0	95.4	1530	
150	1800	460	445TC	HHI150-18-445TC-F2	\$18,693.58	163.8	95.8	1700	
	1800	460	445TSC	HHI150-18-445TSC-F2	\$18,693.58	163.8	95.8	1700	
200	1800	460	447TC	HHI200-18-447TC-F2	\$21,643.81	222.4	96.2	1860	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Severe Duty

TEFC Enclosure ▪ C-Face Round Body (Footless) ▪ Three-Phase ▪ 208-230/460 Volt

Product Specifications

- 1-200 HP
- 1800 RPM
- 208-230/460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 Protection
- Dual Rated SF
1.15 for 40°C / 1.0 for 65°C
- Class F Insulation
with Class N Varnish
- C-Face Round Body (Footless)
- Premium Efficiency
- NEMA Design B
- Inverter Ready, 10:1 CT / 20:1 VT
- Inverter Shield Insulation and Inverter Grade
Magnet Wire Meets or Exceeds NEMA
MG-1 Part 31 for Exceptional Corona
and Transient Protection (254TC and up)
- Cast Iron Frame and Conduit Box
- Suitable for Part Winding Start
on Low Voltage (1-125 HP)
- Suitable for Wye-Delta Start (15-200 HP)
- F2 Field Convertible
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143TC	HHI1-18-143TCRD	\$506.64	1.6	85.5	53	
1.5	1800	208-230/460	145TC	HHI1.5-18-145TCRD	\$557.52	2.2	86.5	55	
2	1800	208-230/460	145TC	HHI2-18-145TCRD	\$690.27	3.0	86.5	55	
3	1800	208-230/460	182TC	HHI3-18-182TCRD	\$753.32	3.9	89.5	90	
5	1800	208-230/460	184TC	HHI5-18-184TCRD	\$856.19	6.5	89.5	105	
7.5	1800	208-230/460	213TC	HHI7.5-18-213TCRD	\$1,155.97	9.5	91.7	150	
10	1800	208-230/460	215TC	HHI10-18-215TCRD	\$1,392.70	12.8	91.7	165	
15	1800	208-230/460	254TC	HHI15-18-254TCRD	\$2,099.56	18.3	92.4	260	
20	1800	208-230/460	256TC	HHI20-18-256TCRD	\$2,461.28	24.8	93.0	300	
25	1800	208-230/460	284TC	HHI25-18-284TCRD	\$2,984.51	30.3	93.6	380	
30	1800	208-230/460	286TC	HHI30-18-286TCRD	\$3,334.07	36.0	93.6	410	
40	1800	208-230/460	324TC	HHI40-18-324TCRD	\$4,455.75	48.8	94.1	626	
50	1800	208-230/460	326TC	HHI50-18-326TCRD	\$5,647.12	59.9	94.5	620	
60	1800	208-230/460	364TC	HHI60-18-364TCRD	\$8,191.37	69.9	95.0	780	
75	1800	208-230/460	365TC	HHI75-18-365TCRD	\$9,516.59	85.1	95.4	820	
100	1800	208-230/460	405TC	HHI100-18-405TCRD	\$12,514.38	114.1	95.4	1110	
125	1800	208-230/460	444TC	HHI125-18-444TCRD	\$16,168.14	142.0	95.4	1530	
150	1800	208-230/460	445TC	HHI150-18-445TCRD	\$18,693.58	163.8	95.8	1700	
200	1800	208-230/460	447TC	HHI200-18-447TCRD	\$21,643.81	222.4	96.2	1860	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - IEEE-841

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 460 Volt

Product Specifications

- 1-250 HP
- 3600, 1800 and 1200 RPM
- Single Voltage, 460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 rating with ABS Type approval
- Suitable for IP56 without ABS approval
- Dual Rated SF 1.15 for 40°C / 1.0 for 65°C
- Class F Insulation with Class N Varnish
- Rigid Base
- Full Compliance with IEEE-841 Standard
- Premium Efficiency
- Class B Temperature Rise
- NEMA Design B
- Parker Hannifin ProTech IP66 Labyrinth Seals on Both Drive-End and Opposite Drive-End Bearings
- Inverter Duty, 10:1 CT / 20:1 VT
- Inverter Shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection
- IEEE-841 Motor Test Report Supplied with Each Motor
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	460	143T	IEEE1-18-143T	\$978.98	1.6	85.5	53	
	1200	460	145T	IEEE1-12-145T	\$1,167.04	1.8	82.5	55	
1.5	3600	460	143T	IEEE1.5-36-143T	\$1,073.01	2.0	84.0	53	
	1800	460	145T	IEEE1.5-18-145T	\$1,046.46	2.2	86.5	55	
2	1200	460	182T	IEEE1.5-12-182T	\$1,272.12	2.3	87.5	90	
	3600	460	145T	IEEE2-36-145T	\$1,123.89	2.6	85.5	55	
3	1800	460	145T	IEEE2-18-145T	\$1,130.53	3.0	86.5	55	
	1200	460	184T	IEEE2-12-184T	\$1,493.36	3.0	88.5	105	
5	3600	460	182T	IEEE3-36-182T	\$1,388.27	3.8	86.5	90	
	1800	460	182T	IEEE3-18-182T	\$1,384.96	3.9	89.5	90	
7.5	1200	460	213T	IEEE3-12-213T	\$1,910.40	4.5	89.5	150	
	3600	460	184T	IEEE5-36-184T	\$1,554.20	6.1	88.5	105	
10	1800	460	184T	IEEE5-18-184T	\$1,574.12	6.5	89.5	105	
	1200	460	215T	IEEE5-12-215T	\$2,190.27	7.4	89.5	165	
15	3600	460	213T	IEEE7.5-36-213T	\$1,923.67	9.0	89.5	150	
	1800	460	213T	IEEE7.5-18-213T	\$1,938.05	9.5	91.7	150	
20	1200	460	254T	IEEE7.5-12-254T	\$3,098.45	10.3	91.0	260	
	3600	460	215T	IEEE10-36-215T	\$2,106.19	12.0	90.2	165	
25	1800	460	215T	IEEE10-18-215T	\$2,139.38	12.8	91.7	165	
	1200	460	256T	IEEE10-12-256T	\$3,545.35	13.8	91.0	300	
30	3600	460	254T	IEEE15-36-254T	\$3,141.59	16.9	91.7	260	
	1800	460	254T	IEEE15-18-254T	\$2,909.29	18.3	92.4	260	
40	1200	460	284T	IEEE15-12-284T	\$4,464.60	19.8	91.7	380	
	3600	460	256T	IEEE20-36-256T	\$3,497.79	23.1	91.7	300	
50	1800	460	256T	IEEE20-18-256T	\$3,400.44	24.8	93.0	300	
	1200	460	286T	IEEE20-12-286T	\$4,728.98	26.7	91.7	390	
60	3600	460	284TS	IEEE25-36-284TS	\$3,902.65	28.5	91.7	380	
	1800	460	284T	IEEE25-18-284T	\$4,029.87	30.3	93.6	380	
75	1200	460	324T	IEEE25-12-324T	\$5,476.77	31.2	93.0	550	
	3600	460	286TS	IEEE30-36-286TS	\$4,123.89	33.8	91.7	410	
100	1800	460	286T	IEEE30-18-286T	\$4,524.34	36.0	93.6	410	
	1200	460	326T	IEEE30-12-326T	\$6,381.64	37.1	93.0	560	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - IEEE-841 (Cont.)

TEFC Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
40	3600	460	324TS	IEEE40-36-324TS	\$5,819.69	45.5	92.4	530	
	1800	460	324T	IEEE40-18-324T	\$5,684.73	48.8	94.1	550	
	1200	460	364T	IEEE40-12-364T	\$10,713.50	48.8	94.1	780	
50	3600	460	326TS	IEEE50-36-326TS	\$6,559.73	55.8	93.0	540	
	1800	460	326T	IEEE50-18-326T	\$6,670.35	59.9	94.5	560	
	1200	460	365T	IEEE50-12-365T	\$11,616.15	60.2	94.1	840	
60	3600	460	364TS	IEEE60-36-364TS	\$9,801.99	65.6	94.1	780	
	1800	460	364T	IEEE60-18-364T	\$11,117.26	69.9	95.0	780	
	1200	460	404T	IEEE60-12-404T	\$13,805.31	71.2	94.5	1120	R
75	3600	460	365TS	IEEE75-36-365TS	\$11,198.01	79.8	94.5	820	
	1800	460	365T	IEEE75-18-365T	\$11,480.09	85.1	95.4	820	
	1200	460	405T	IEEE75-12-405T	\$15,102.88	87.0	94.5	1220	R
100	3600	460	405TS	IEEE100-36-405TS	\$14,043.14	110.1	94.5	1110	
	1800	460	405T	IEEE100-18-405T	\$17,110.62	114.1	95.4	1110	R
	1800	460	405T	IEEE100-18-405TBB	\$17,110.62	114.1	95.4	1110	BB
	1200	460	444T	IEEE100-12-444T	\$18,769.91	116.6	95.0	1530	R
125	3600	460	444TS	IEEE125-36-444TS	\$21,353.98	139.5	95.0	1610	
	1800	460	444T	IEEE125-18-444T	\$20,780.97	142.0	95.4	1530	R
	1800	460	444T	IEEE125-18-444TBB	\$20,780.97	142.0	95.4	1530	BB
	1200	460	445T	IEEE125-12-445T	\$21,780.97	147.7	95.0	1700	R
150	3600	460	445TS	IEEE150-36-445TS	\$23,478.98	161.5	95.0	1770	
	1800	460	445T	IEEE150-18-445T	\$23,523.23	163.8	95.8	1770	R
	1800	460	445T	IEEE150-18-445TBB	\$23,523.23	163.8	95.8	1770	BB
	1200	460	447T	IEEE150-12-447T	\$25,396.02	169.5	95.8	1860	R
200	3600	460	447TS	IEEE200-36-447TS	\$30,711.28	219.3	95.4	1900	
	1800	460	447T	IEEE200-18-447T	\$26,523.23	222.4	96.2	1860	R
	1800	460	447T	IEEE200-18-447TBB	\$26,523.23	222.4	96.2	1860	BB
	1200	460	449T	IEEE200-12-449T	\$30,176.99	231.2	95.8	2430	R
250	3600	460	449TS	IEEE250-36-449TS	\$36,412.61	276.6	95.8	2430	
	1800	460	449T	IEEE250-18-449T	\$32,798.67	281.7	96.2	2430	R
	1800	460	449T	IEEE250-18-449TBB	\$32,798.67	281.7	96.2	2430	BB

IEEE Motor C-Flange Kits

Frame Size	Model Number	List Price
143T / 145T	IH140TC	\$138.27
182T / 184T	IH180TC	\$173.67
213T / 215T	IH210TC	\$240.04
254T / 256T	IH250TC	\$532.08
284T / 286T	IH280TC	\$636.06
324T / 326T	IH320TC	\$824.12
364T / 365T	IH360TC	\$1,163.72
364TS / 365TS	IH3602PTC	\$1,163.72
404T / 405T	IH400TC	\$1,377.21
404TS / 405TS	IH4002PTC	\$1,377.21
444T / 445T / 447T / 449T	IH440TC	\$1,883.85
444TS / 445TS / 447TS / 449TS	IH4402PTC	\$1,883.85

BB Ball bearing on drive-end for direct coupled applications
 R Roller bearing on drive end for belted applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - IEEE-841

TEFC Enclosure ▪ C-Face with Feet ▪ Three-Phase ▪ 460 Volt

Product Specifications

- 1-100 HP
- 3600 and 1800 RPM
- Single Voltage, 460 Volt
- Totally Enclosed Fan Cooled (TEFC) Enclosure
- IP55 rating with ABS Type approval
- Suitable for IP56 without ABS approval
- Dual Rated SF
1.15 for 40°C / 1.0 for 65°C
- Class F Insulation with Class N Varnish
- C-Face with Feet
- Full Compliance with IEEE-841 Standard
- Premium Efficiency
- Class B Temperature Rise
- NEMA Design B
- Parker Hannifin ProTech IP66 Labyrinth Seals on Both Drive-End and Opposite Drive-End Bearings
- Inverter Duty, 10:1 CT / 20:1 VT
- Inverter Shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection
- IEEE-841 Motor Test Report Supplied with Each Motor
- Suitable for 50 Hz Operation with 1.0 SF
- Class 1, Division 2, Groups A, B, C, D
- All Motors Carry ABS Type Approval



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	460	143TC	IEEE1-18-143TC	\$1,019.91	1.6	85.5	53	
1.5	3600	460	143TC	IEEE1.5-36-143TC	\$1,117.26	2.0	84.0	53	
	1800	460	145TC	IEEE1.5-18-145TC	\$1,089.60	2.2	86.5	55	
2	3600	460	145TC	IEEE2-36-145TC	\$1,170.35	2.6	85.5	55	
	1800	460	145TC	IEEE2-18-145TC	\$1,178.10	3.0	86.5	55	
3	3600	460	182TC	IEEE3-36-182TC	\$1,445.80	3.8	86.5	90	
	1800	460	182TC	IEEE3-18-182TC	\$1,442.48	3.9	89.5	90	
5	3600	460	184TC	IEEE5-36-184TC	\$1,619.47	6.1	88.5	105	
	1800	460	184TC	IEEE5-18-184TC	\$1,639.38	6.5	89.5	105	
	1200	460	215TC	IEEE5-12-215TC	\$2,282.08	7.4	89.5	165	
7.5	3600	460	213TC	IEEE7.5-36-213TC	\$2,003.32	9.0	89.5	150	
	1800	460	213TC	IEEE7.5-18-213TC	\$2,018.81	9.5	91.7	150	
	1200	460	254TC	IEEE7.5-12-254TC	\$3,227.88	10.3	91.0	260	
10	3600	460	215TC	IEEE10-36-215TC	\$2,193.58	12.0	90.2	165	
	1800	460	215TC	IEEE10-18-215TC	\$2,228.98	12.8	91.7	165	
	1200	460	256TC	IEEE10-12-256TC	\$3,693.58	13.8	91.0	300	
15	3600	460	254TC	IEEE15-36-254TC	\$3,272.12	16.9	91.7	260	
	1800	460	254TC	IEEE15-18-254TC	\$3,030.97	18.3	92.4	260	
	1200	460	284TC	IEEE15-12-284TC	\$4,650.44	19.8	91.7	380	
20	3600	460	256TC	IEEE20-36-256TC	\$3,643.81	23.1	91.7	300	
	1800	460	256TC	IEEE20-18-256TC	\$3,542.04	24.8	93.0	300	
	1200	460	286TC	IEEE20-12-286TC	\$4,925.88	26.7	91.7	390	
25	3600	460	284TSC	IEEE25-36-284TSC	\$4,065.27	28.5	91.7	380	
	1800	460	284TC	IEEE25-18-284TC	\$4,198.01	30.3	93.6	380	
30	3600	460	286TSC	IEEE30-36-286TSC	\$4,295.35	33.8	91.7	410	
	1800	460	286TC	IEEE30-18-286TC	\$4,712.39	36.0	93.6	410	
40	3600	460	324TSC	IEEE40-36-324TSC	\$6,061.95	45.5	92.4	550	
	1800	460	324TC	IEEE40-18-324TC	\$5,921.46	48.8	94.1	550	
50	3600	460	326TSC	IEEE50-36-326TSC	\$6,832.96	55.8	93.0	560	
	1800	460	326TC	IEEE50-18-326TC	\$6,948.01	59.9	94.5	560	
60	1800	460	364TC	IEEE60-18-364TC	\$11,580.75	69.9	95.0	780	
75	1800	460	365TC	IEEE75-18-365TC	\$11,957.96	85.1	95.4	820	
100	1800	460	405TC	IEEE100-18-405TC	\$17,824.12	114.1	95.4	1110	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Explosion Proof

TEXP Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

Product Specifications

- 1-250 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 Volt (1-125 HP)
- 460 Volt (150-250 HP)
- Totally Enclosed Fan Cooled Explosion Proof (TEXP) Enclosure
- IP54 Protection
- 1.15 SF
- Class F Insulation with Class N Varnish
- Class B Temperature Rise
- Rigid Base
- Premium Efficiency
- NEMA Design B
- Suitable for 50 Hz Operation with 1.0 SF
- Inverter Duty with 1.0 SF
4:1 CT (Constant) / 10:1 CT (Intermittent-1 Hour) / 10:1 VT
- Inverter Shield Insulation and Inverter Grade Magnet Wire Meets or Exceeds NEMA MG-1 Part 31 for Exceptional Corona and Transient Protection
- Cast Iron Frame and Conduit Box
- Suitable for Part Winding Start on Low Voltage (1-125 HP)
- Suitable for Wye-Delta Start (15-200 HP)
- Unique Multiple Rating System for 40° and 55°C Ambient
 - 143T-215T: T2C at 40°C, T2B at 55°C, T4 when thermostat is connected
 - 254T-286T: T2D at 40°C, T2C at 55°C, T4 when thermostat is connected
 - 324T-405T: T3 at 40°C, T2D at 55°C, T4 when thermostat is connected
 - 445T-449T: T3 at 40°C, T2D at 55°C, T4 when thermostat is connected and 1.0 SF
- Class 1, Division 1, Groups C and D, UL Certification



HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
1	1800	208-230/460	143T	IXHHI1-18-143T	\$1,117.26	1.6	85.5	64	
	1200	208-230/460	145T	IXHHI1-12-145T	\$1,204.65	1.8	82.5	66	
	3600	208-230/460	143T	IXHHI1.5-36-143T	\$1,172.57	2.0	84.0	64	
1.5	1800	208-230/460	145T	IXHHI1.5-18-145T	\$1,183.63	2.2	86.5	66	
	1200	208-230/460	182T	IXHHI1.5-12-182T	\$1,475.66	2.3	87.5	112	
	3600	208-230/460	145T	IXHHI2-36-145T	\$1,266.59	2.6	85.5	66	
2	1800	208-230/460	145T	IXHHI2-18-145T	\$1,287.61	3.0	86.5	66	
	1200	208-230/460	184T	IXHHI2-12-184T	\$1,797.57	3.0	88.5	121	
	3600	208-230/460	182T	IXHHI3-36-182T	\$1,704.65	3.8	86.5	112	
3	1800	208-230/460	182T	IXHHI3-18-182T	\$1,699.12	3.9	89.5	112	
	1200	208-230/460	213T	IXHHI3-12-213T	\$2,256.64	4.5	89.5	160	
5	3600	208-230/460	184T	IXHHI5-36-184T	\$1,920.35	6.1	88.5	121	
	1800	208-230/460	184T	IXHHI5-18-184T	\$1,940.27	6.5	89.5	121	
	1200	208-230/460	215T	IXHHI5-12-215T	\$2,799.78	7.4	89.5	180	
7.5	3600	208-230/460	213T	IXHHI7.5-36-213T	\$2,500.00	9.0	89.5	160	
	1800	208-230/460	213T	IXHHI7.5-18-213T	\$2,676.99	9.5	91.7	160	
	1200	208-230/460	254T	IXHHI7.5-12-254T	\$3,536.50	10.3	91.0	310	
10	3600	208-230/460	215T	IXHHI10-36-215T	\$2,795.35	12.0	90.2	180	
	1800	208-230/460	215T	IXHHI10-18-215T	\$2,855.09	12.8	91.7	180	
	1200	208-230/460	256T	IXHHI10-12-256T	\$4,085.18	13.8	91.0	350	
15	3600	208-230/460	254T	IXHHI15-36-254T	\$4,054.20	16.9	91.7	310	
	1800	208-230/460	254T	IXHHI15-18-254T	\$3,897.12	18.3	92.4	310	
	1200	208-230/460	284T	IXHHI15-12-284T	\$5,056.42	19.8	91.7	440	
20	3600	208-230/460	256T	IXHHI20-36-256T	\$4,236.73	23.1	91.7	350	
	1800	208-230/460	256T	IXHHI20-18-256T	\$4,139.38	24.8	93.0	350	
	1200	208-230/460	286T	IXHHI20-12-286T	\$5,486.73	26.7	91.7	480	
25	3600	208-230/460	284TS	IXHHI25-36-284TS	\$4,981.20	28.5	91.7	440	
	1800	208-230/460	284T	IXHHI25-18-284T	\$5,225.66	30.3	93.6	440	
	1200	208-230/460	324T	IXHHI25-12-324T	\$7,040.93	31.2	93.0	840	
30	3600	208-230/460	286TS	IXHHI30-36-286TS	\$5,779.87	33.8	91.7	480	
	1800	208-230/460	286T	IXHHI30-18-286T	\$5,505.53	36.0	93.6	480	
	1200	208-230/460	326T	IXHHI30-12-326T	\$7,694.69	37.1	93.0	820	

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

HYUNDAI Crown Triton™ Series Motors - Explosion Proof (Cont.)

TEXP Enclosure ▪ Rigid Base ▪ Three-Phase ▪ 208-230/460 and 460 Volt

HP	RPM	Voltage	Frame	Model Number	List Price	FL Amps (A)	FL Eff. (%)	Approx. Wt. (lbs.)	Notes
40	3600	208-230/460	324TS	IXHHI40-36-324TS	\$6,919.25	45.5	92.4	800	
	1800	208-230/460	324T	IXHHI40-18-324T	\$7,316.37	48.8	94.1	820	
	1200	208-230/460	364T	IXHHI40-12-364T	\$11,401.55	48.8	94.1	1113	
50	3600	208-230/460	326TS	IXHHI50-36-326TS	\$8,571.90	55.8	93.0	820	
	1800	208-230/460	326T	IXHHI50-18-326T	\$8,533.19	59.9	94.5	840	
	1200	208-230/460	365T	IXHHI50-12-365T	\$12,735.62	60.2	94.1	1173	
60	3600	208-230/460	364TS	IXHHI60-36-364TS	\$11,797.57	65.6	94.1	1047	
	1800	208-230/460	364T	IXHHI60-18-364T	\$11,638.27	69.9	95.0	1113	
	1200	208-230/460	404T	IXHHI60-12-404T	\$15,363.94	71.2	94.5	1532	
75	3600	208-230/460	365TS	IXHHI75-36-365TS	\$13,424.78	79.8	94.5	1087	
	1800	208-230/460	365T	IXHHI75-18-365T	\$12,803.10	85.1	95.4	1153	
	1200	208-230/460	405T	IXHHI75-12-405T	\$17,375.00	87.0	94.5	1830	
100	3600	208-230/460	405TS	IXHHI100-36-405TS	\$16,765.49	110.1	94.5	1852	
	1800	208-230/460	405T	IXHHI100-18-405TBB	\$17,161.50	114.1	95.4	1830	BB
	1200	208-230/460	444T	IXHHI100-12-444TBB	\$21,642.70	116.6	95.0	2116	BB
125	3600	208-230/460	444TS	IXHHI125-36-444TS	\$20,466.81	139.5	95.0	2006	
	1800	208-230/460	444T	IXHHI125-18-444TBB	\$20,727.88	142.0	95.4	2116	BB
150	3600	460	445TS	IXHHI150-36-445TS	\$26,519.91	161.5	95.0	2249	
	1800	460	445T	IXHHI150-18-445TBB	\$28,121.68	163.8	95.8	2293	BB
	1200	460	447T	IXHHI150-12-447TBB	\$37,189.16	169.5	95.8	2756	BB
200	3600	460	447TS	IXHHI200-36-447TS	\$35,055.31	219.3	95.4	2690	
	1800	460	447T	IXHHI200-18-447TBB	\$34,750.00	222.4	96.2	2756	BB
	1200	460	449T	IXHHI200-12-449TBB	\$53,344.00	231.2	95.8	3086	BB
250	3600	460	449TS	IXHHI250-36-449TS	\$49,526.55	276.6	95.8	3020	
	1800	460	449T	IXHHI250-18-449TBB	\$49,651.55	281.7	96.2	3086	BB

BB Ball bearing on drive-end for direct coupled applications

When using any motor with a variable frequency drive, take precautions to eliminate or reduce shaft currents in order to prolong bearing life.

WORLDWIDE Motor Slide Bases

Product Specifications

- Bases are Provided with Washers
- Bases are Painted with an Oven-Baked Primer for Better Contact of Customer's Paint
- All "D" Bolts (Motor Mounting Bolts) are Grade 5 and Welded into Position to Prevent Spinning and "Dropping" from Slots
- All "D" Bolts are Fixed to the Exact Foot Pattern of the Motor to Aid in Easier Motor Installation
- Exact Drop-In Replacement for all Major Make Slide Bases
- Single Adjusting Screws for Frames 56-145T
- Double Adjusting Screws for Frames 182T-505T



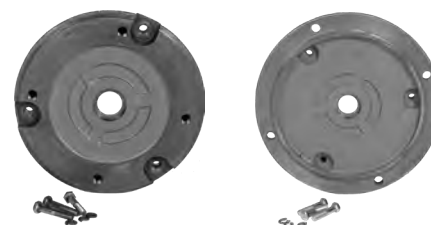
Frame	Model Number	List Price	Approx. Wt. (lbs.)
56	W56	\$20.83	3
143T	W143T	\$40.10	6
145T	W145T	\$40.10	7
182T	W182T	\$54.54	10
184T	W184T	\$54.54	10
213T	W213T	\$81.14	15
215T	W215T	\$81.14	17
254T	W254T	\$110.52	19
256T	W256T	\$110.52	20
284T	W284T	\$124.29	24
286T	W286T	\$124.29	25
324T	W324T	\$180.84	35
326T	W326T	\$180.84	36
364T	W364T	\$251.70	49
365T	W365T	\$251.70	50
404T	W404T	\$308.33	66
405T	W405T	\$308.33	68
444T	W444T	\$348.37	74
445T	W445T	\$348.37	76
447T	W447T	\$460.80	102
449T	W449T	\$460.80	105
505T	W505T	\$715.90	137

"INSTA-MOD" Modification Program

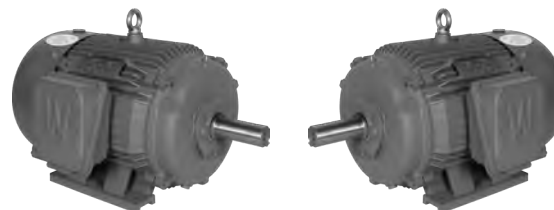


The "INSTA-MOD" Modification Program is the quickest way to get custom-built motors!

C-Flange / D-Flange Adaptation
Installation of C-Flange or D-Flange.



F1 / F2 Mount Conversion
Convert from F1 mount to F2 mount or convert from F2 mount to F1 mount.



Turn Down T to TS Short Shaft
Convert from "T" to "TS" shaft dimensions.

Space Heaters (120 or 240 Volt)
Space heaters are installed in the motor to prevent moisture or condensation from building up on the motor windings or bearings.

Winding Thermistors
Thermistors are provided and placed in the stator windings and as critical temperature is reached, the resistance of the thermistors changes radically, causing operation of the control relay.

Bearing / Winding RTDs
Resistance Temperature Detectors are installed in the windings or at the bearing journals to measure the internal temperature rise of the components to assist in preventing thermal damage to the motor windings or bearings.



Please call for additional modifications and explosion proof modifications not seen above.

“INSTA-MOD” Modification Program (Cont.)

The “INSTA-MOD” Modification Program is the quickest way to get custom-built motors!



Bearing Change
Change roller bearing to ball bearing or ball bearing to roller bearing.



Insulated ODE Bearing
Opposite drive-end bearing is insulated to prevent circulating current damage to the bearing.



Current Diverter Ring
Provided and installed to protect your motor bearings and coupled equipment from damaging electrical currents.



IEEE / Washdown - White Epoxy Paint
Suitable for use in USDA inspected facilities.
Conforms to AWWA D102 Outside Coating Systems: #4 (OCS-4), #5 (OCS-5) and #6 (OCS-6)

Fungus Protection / Tropicalization
Protection of windings, electrical and mechanical parts of motor from tropical environments.

Please call for additional modifications and explosion proof modifications not seen above.

Warranty Policy

Warranty Length

The warranty length for WorldWide Electric Motors is as follows:

WorldWide Fractional HP Motors

General Purpose Motors	Two (2) years from date of sale (invoice)
Jet Pump Motors	Two (2) years from date of sale (invoice)
Stainless Steel / Washdown Duty Motors	Three (3) years from date of sale (invoice)
Permanent Magnet DC Motors	One (1) year from date of sale (invoice)

WorldWide Farm Duty Motors

Two (2) years from date of sale (invoice)

WorldWide Premium Efficient Stainless Steel Motors Three (3) years from date of sale (invoice)

WorldWide Open Drip Proof (ODP) Motors Two (2) years from date of sale (invoice)

WorldWide Premium Efficiency Motors

1-200 HP	3600 and 1800 RPM	Three (3) years from date of sale (invoice)
1-150 HP	1200 RPM	Three (3) years from date of sale (invoice)
3-300 HP	900 RPM	Two (2) years from date of sale (invoice)
200 HP	1200 RPM	Two (2) years from date of sale (invoice)
250-500 HP	3600, 1800 and 1200 RPM	Two (2) years from date of sale (invoice)

WorldWide Explosion Proof Motors Two (2) years from date of sale (invoice)

WorldWide Advanced Design Rock Crusher Motors Two (2) years from date of sale (invoice)

WorldWide Oil Well Pump Motors Two (2) years from date of sale (invoice)

WorldWide Close Coupled Pump Motors Two (2) years from date of sale (invoice)

WorldWide Vertical Hollow Shaft Motors Two (2) years from date of sale (invoice)

HYUNDAI Severe Duty Motors Three (3) years from date of sale (invoice)

HYUNDAI Severe Duty Large Frame Motors Three (3) years from date of sale (invoice)

HYUNDAI IEEE841 Motors Five (5) years from date of sale (invoice)

HYUNDAI Explosion Proof Motors Three (3) years from date of sale (invoice)

WorldWide Motor Slide Bases Three (3) years from date of sale (invoice)

Warranty Policy

Warranty Procedure

ALL MOTORS WITH THE EXCEPTION OF IEEE-841, EXPLOSION PROOF AND VERTICAL HOLLOW SHAFT MOTORS:

1. Motors up to and including 286T are covered by our nameplate only policy. If the motor has failed due to a manufacturer's defect within the warranty period, the customer must complete the NAMEPLATE WARRANTY CREDIT REQUEST FORM, attach the nameplate to the completed form and mail to WorldWide Electric for credit (photo of nameplate required for stainless steel / washdown duty motors). **Please note, the Nameplate Warranty Credit Request Form should be mailed via certified mail.** WorldWide Electric shall not be liable for any labor or operating costs connected with the replacement of the motor. The purchaser shall be responsible for any transportation charges connected with the replacement of the motor. This warranty is offered one time per end user, per application. If there are additional failures, please follow our normal warranty policy.
2. Motors 324T and above must be inspected by an authorized EASA service center or other approved motor shop for determination of cause of failure. Authorized EASA service centers are available inside and outside of the United States. Visit the EASA website at www.easa.com to find the nearest authorized service center. These shops may also be able to assist with non-warranty service.
3. The service center must provide a written estimate for inspection and a purchase order must be issued by WorldWide Electric prior to the motor inspection.
4. After completion of the motor inspection, the service center must complete the WARRANTY REPAIR REPORT, attach detailed photographs of the failure and e-mail to WorldWide Electric for review.
5. If the failure is determined to be from a defect in material or workmanship when operated under normal conditions and in accordance with nameplate characteristic limits, WorldWide Electric shall either repair or replace the motor, at the company's discretion. WorldWide Electric shall not be liable for any labor or operating costs connected with the repair / replacement of the motor.
6. Should WorldWide Electric choose to repair the motor, the service center must provide a written estimate for repair and a purchase order must be issued by WorldWide Electric prior to the repair being performed.
7. Should WorldWide Electric choose to replace the motor, the purchaser shall be responsible for any transportation charges connected with the replacement of the motor.
8. All warranties, regardless of frame size / motor size will be subject to WorldWide Electric's final approval.

ALL IEEE-841, EXPLOSION PROOF AND VERTICAL HOLLOW SHAFT MOTORS:

1. Motors must be inspected by a UL certified / authorized EASA service center for determination of cause of failure. Authorized EASA service centers are available inside and outside of the United States. Visit the EASA website at www.easa.com to find the nearest authorized service center. These shops may also be able to assist with non-warranty service.
2. The service center must provide a written estimate for inspection and a purchase order must be issued by WorldWide Electric prior to the motor inspection.
3. After completion of the motor inspection, the service center must complete the WARRANTY REPAIR REPORT, attach detailed photographs of the failure and e-mail to WorldWide Electric for review.
4. If the failure is determined to be from a defect in material or workmanship when operated under normal conditions and in accordance with nameplate characteristic limits, WorldWide Electric shall either repair or replace the motor, at the company's discretion. WorldWide Electric shall not be liable for any labor or operating costs connected with the repair / replacement of the motor.
5. Should WorldWide Electric choose to repair the motor, the service center must provide a written estimate for repair and a purchase order must be issued by WorldWide Electric prior to the repair being performed.
6. Should WorldWide Electric choose to replace the motor, the purchaser shall be responsible for any transportation charges connected with the replacement of the motor.
7. All warranties, regardless of frame size / motor size will be subject to WorldWide Electric's final approval.

Return Policy

1. All WorldWide Electric products (electric motors, motor controls and gearing products) that are purchased as normal stock items may be returned, with freight to be paid, back to the closest WorldWide Electric warehouse by the customer.
2. Any returned products must be new, undamaged and in original cartons/packaging. Final credit will not be issued until WorldWide Electric has verified the products/shipping cartons as such.
3. All RGA requests must be made within 90 days of original purchase.
4. If the returned products were ordered incorrectly by the customer, 20% will be levied as a restocking charge which carries a minimum \$75 charge.
5. If the customer places an order equal to or greater than the goods being returned, then the restocking charge will be 10% (minimum \$75 charge).
6. If the product being returned was originally shipped to the customer prepaid and allowed, the original freight charge will be deducted from the return credit.
7. If the returned products are not in original condition (as well as the packaging), there will be additional fees applied to repair and/or replace those parts/products.

Freight Terms / Programs / Services

Freight Terms

Freight terms are as follows on all orders shipped from any of our warehouses.
All products can be assorted from all three divisions; motors, controls and gearing.

\$5,000 +	Truck - Prepaid and Allowed
\$1,000 - \$4,999	Truck - 10% of Invoice - Prepaid and Add
\$0 - \$999	Truck - \$100 Minimum - Prepaid and Add

FedEx / UPS will be utilized for shipments under 100 lbs. and billed on a prepaid and add basis (excluding cast iron motors and gear reducer products). Customers may always choose to have their shipment sent freight collect.

Special Freight Prepaid Programs

56-Frame Motors	25 + Pieces Assorted - Prepaid and Allowed
Slide Bases	25 + Pieces Assorted - Prepaid and Allowed

Orders may be picked up from any of our warehouses as a will call. We would prefer a one-hour advance notification for orders to be picked up. However, allowances will be made for special rush and urgent situations. Freight terms are as follows on all orders shipped from any of our warehouses.

Additional Freight Services

Delivery Appointment	\$ 65.00
Liftgate Delivery	\$200.00
Residential Delivery	\$125.00
Expedited Delivery	Please Call for Quote



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 - Chassis and Enclosed
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- ☐ Contactors
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- ☐ Pilot Devices



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 - The Ultimate
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 - WINL Line
- ☐ Helical-Bevel Reducers
 - KHN Line
 - KAN Line



2020-2021

Electric Motors Stock Products Catalog

Document No: MD-CAT-09.2020



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MOTOR
CONTROLS



Motor Control Products Catalog

2020-2021

WorldWide Electric has a complete line of Motor Controls including Variable Frequency Drives, Reduced Voltage Soft Starters, Across the Line Motor Starters, Enclosed Solutions and Accessories for the most demanding requirements.





WorldWide Electric Motor Control Products

Proven, reliable designs

At WorldWide Electric, we know quality products at the right price alongside superior customer service are the keys to YOUR success. These are the principles that drive us every day for YOU, our most valued customer. From VFD solutions to across the line motor starters, WWE has the right products and control packages for every need, giving you the flexibility to do more. Products and control packages for more applications from conveyors to pumps and most everything in between, we invite you to judge for yourself.

We are WorldWide.

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N700E Series Variable Frequency Drives - 230 Volt

The HYUNDAI N700E Series High Performance Drives offer powerful control solutions with exceptional speed control and torque response which provides superior vector performance. The N700E's compact size and sensorless vector control technology provides perfectly optimized performance for industrial and commercial applications.

Certificates of international compliance (UL/cUL, CE) for the N700E series make it perfect for global applications. Compatible with the most common loads such as: fans, blowers, compressors, pumps, mixers, agitators, feeders, centrifuges, cranes, hoists, presses, extruders, and textile spinning machines.

Product Specifications

- » Sensorless Vector Control
- » 0.01 - 400 Hz
- » 60 sec. 150% overload, CT applications
- » 60 sec. 120% overload, VT applications
- » 3000 second accel/decel
- » DC braking
- » Auto-tuning
- » Sixteen pre-set speeds
- » Adjustable carrier frequencies
- » PID control
- » Frequency jump
- » Analog gain bias
- » Jog run
- » Electronic thermal overload
- » Auto-torque boost, trip history monitor and software lock
- » Speed search function
- » Intelligent input function
- » RS485 - Modbus communications
- » Other communications options available
- Consult factory



HYUNDAI
ELECTRIC

230 Volt, Single-Phase In / 230 Volt, Three-Phase Out

HP	Output Current	Model Number	List Price	Dimensions (in) H x W x D	Approx. Weight (lbs.)	Conduit Connection Box NEMA 1 Enclosure	
						Model Number	List Price
0.5	3	N700E-004SF	\$707.96	5.04 x 2.67 x 5.04	2.6	Standard	—
1	5	N700E-007SF	\$736.73	5.04 x 2.67 x 5.04	2.6	Standard	—
2	7	N700E-015SF	\$855.09	5.04 x 4.25 x 5.6	3.3	Standard	—
3	11	N700E-022SF	\$925.88	5.04 x 4.25 x 5.6	3.3	Standard	—

230 Volt, Three-Phase In / 230 Volt, Three-Phase Out

Constant Torque 150% Overload		Variable Torque 120% Overload		Model Number	List Price	Dimensions (in) H x W x D	Approx. Weight (lbs.)	Conduit Connection Box NEMA 1 Enclosure	
HP	Output Current	HP	Output Current					Model Number	List Price
0.5	3	—	—	N700E-004LF	\$689.16	5.04 x 2.67 x 5.04	2.6	Standard	—
1	5	—	—	N700E-007LF	\$714.60	5.04 x 2.67 x 5.04	2.6	Standard	—
2	7	—	—	N700E-015LF	\$841.81	5.04 x 2.67 x 5.04	2.6	Standard	—
3	11	—	—	N700E-022LF	\$911.50	5.04 x 4.25 x 5.6	3.3	Standard	—
5	17	—	—	N700E-037LF	\$1,171.46	5.04 x 5.42 x 5.78	4.4	Standard	—
7.5	24	10	30	N700E-055LFC	\$2,088.50	10.82 x 8.26 x 6.61	9.3	CBOX-5.5-11	\$127.21
10	32	15	44	N700E-075LFC	\$2,466.81	10.82 x 8.26 x 6.61	9.3	CBOX-5.5-11	\$127.21
15	45	20	50	N700E-110LFC	\$3,161.50	10.82 x 8.26 x 6.61	9.3	CBOX-5.5-11	\$127.21
20	64	25	73	N700E-150LFC	\$3,652.65	15.4 x 9.85 x 7.4	16	CBOX-15-22	\$143.81
25	76	30	85	N700E-185LFC	\$4,058.63	15.4 x 9.85 x 7.4	16	CBOX-15-22	\$143.81
30	90	40	90	N700E-220LFC	\$4,752.21	15.4 x 9.85 x 7.4	22	CBOX-15-22	\$143.81
40	114	50	140	N700E-300LF	\$7,815.27	21.7 x 10.7 x 10.5	55	CBOX-30LF	\$470.13
50	140	60	170	N700E-370LF	\$9,201.33	25.6 x 11.7x x 10.5	78	CBOX-37-45LF	\$486.73
60	170	75	205	N700E-450LF	\$11,079.65	25.6 x 11.7x x 10.5	78	CBOX-37-45LF	\$486.73
75	211	100	261	N700E-550LF	\$13,309.73	30.0 x 13.7 x 10.9	105	CBOX-55-75LF	\$564.16
100	251	125	310	N700E-750LF	\$17,433.63	30.0 x 13.7 x 10.9	105	CBOX-55-75LF	\$564.16

Remote Keypads & Cables

Model Number	Description	List Price
ROP7	LED Remote Keypad Unit	\$204.65
N700E-LCD-KIT-LF	Advanced LCD Keypad	\$663.72
NOP1-1A	Cable, 1.5 Meter	\$44.25
NOP1-3A	Cable, 3 Meter	\$69.69

Additional Product Notes

All WorldWide Hyundai N700E drives can be used for single-phase input / three-phase output. Consult factory to size appropriately. Always check and verify motor full load amps before selecting a VFD.

N700E Series Variable Frequency Drives - 460 Volt

The HYUNDAI N700E Series High Performance Drives offer powerful control solutions with exceptional speed control and torque response which provides superior vector performance. The N700E's compact size and sensorless vector control technology provides perfectly optimized performance for industrial and commercial applications.

Certificates of international compliance (UL/cUL, CE) for the N700E series make it perfect for global applications. Compatible with the most common loads such as: fans, blowers, compressors, pumps, mixers, agitators, feeders, centrifuges, cranes, hoists, presses, extruders, and textile spinning machines.

Product Specifications

- » Sensorless Vector Control
- » 0.01 - 400 Hz
- » 60 sec. 150% overload, CT applications
- » 60 sec. 120% overload, VT applications
- » 3000 second accel/decel
- » DC braking
- » Auto-tuning
- » Sixteen preset speeds
- » Adjustable carrier frequencies
- » PID control
- » Frequency jump
- » Analog gain bias
- » Jog run
- » Electronic thermal overload
- » Auto-torque boost, trip history monitor and software lock
- » Speed search function
- » Intelligent input function
- » RS485 - Modbus communications
- » Other communications options available
- Consult factory



HYUNDAI
ELECTRIC

460 Volt, Three-Phase In / 460 Volt, Three-Phase Out

Constant Torque 150% Overload		Variable Torque 120% Overload		Model Number	List Price	Dimensions (in) H x W x D	Approx. Weight (lbs.)	Conduit Connection Box NEMA 1 Enclosure	
HP	Output Current	HP	Output Current					Model Number	List Price
0.5	1.8	—	—	N700E-004HF	\$875.00	5.04 x 4.25 x 5.6	2.6	Standard	—
1	3.4	—	—	N700E-007HF	\$918.14	5.04 x 4.25 x 5.6	2.6	Standard	—
2	4.8	—	—	N700E-015HF	\$1,059.73	5.04 x 4.25 x 5.6	3.3	Standard	—
3	7.2	—	—	N700E-022HF	\$1,324.12	5.04 x 4.25 x 5.6	3.3	Standard	—
5	9.2	—	—	N700E-037HF	\$1,485.62	5.04 x 5.42 x 5.78	4.4	Standard	—
7.5	12	10	15	N700E-055HFC	\$2,068.58	10.82 x 8.26 x 6.61	9.3	CBOX-5.5-11	\$127.21
10	16	15	22	N700E-075HFC	\$2,529.87	10.82 x 8.26 x 6.61	9.3	CBOX-5.5-11	\$127.21
15	23	20	29	N700E-110HFC	\$3,161.50	10.82 x 8.26 x 6.61	9.3	CBOX-5.5-11	\$127.21
20	32	25	37	N700E-150HFC	\$3,652.65	15.4 x 9.85 x 7.4	16	CBOX-15-22	\$143.81
25	38	30	43	N700E-185HFC	\$4,058.63	15.4 x 9.85 x 7.4	16	CBOX-15-22	\$143.81
30	45	40	57	N700E-220HF	\$4,849.56	15.4 x 9.85 x 7.4	17	CBOX-15-22	\$143.81
40	58	50	70	N700E-300HFC	\$6,974.56	20.86 x 12.28 x 10.63	48	CBOX-30-37	\$259.96
50	75	60	85	N700E-370HFC	\$8,214.60	20.86 x 12.28 x 10.63	48	CBOX-30-37	\$259.96
60	90	75	105	N700E-450HFC	\$9,938.05	21.57 x 13.46 x 11.02	60	CBOX-45-55	\$348.45
75	110	100	135	N700E-550HFC	\$11,248.89	21.57 x 13.46 x 11.02	66	CBOX-45-55	\$348.45
100	149	125	160	N700E-750HF	\$14,725.66	27.48 x 15.6 x 11.02	110	CBOX-75-90	\$387.17
125	176	150	195	N700E-900HFC	\$18,551.99	27.48 x 15.6 x 11.02	110	CBOX-75-90	\$387.17
150	217	200	230	N700E-1100HFC	\$20,318.58	29.13 x 18.89 x 11.81	132	CBOX-110-132	\$636.06
200	260	250	285	N700E-1320HFC	\$23,422.57	29.13 x 18.89 x 11.81	132	CBOX-110-132	\$636.06
250	300	300	370	N700E-1600HF	\$40,297.57	36.22 x 19.92 x 15.35	242	CBOX-160-220	\$931.42
300	415	350	450	N700E-2200HFC	\$41,369.47	36.22 x 19.92 x 15.35	242	CBOX-160-220	\$931.42
400	525	450	600	N700E-2800HF	\$54,632.74	40.15 x 31.73 x 15.55	375	CBOX-280-350	\$1,356.19
500	656	550	680	N700E-3500HFC	\$61,518.81	40.15 x 31.73 x 15.55	375	CBOX-280-350	\$1,356.19

Remote Keypads & Cables

Model Number	Description	List Price
ROP7	LED Remote Keypad Unit	\$204.65
N700E-LCD-KIT-HF	Advanced LCD Keypad	\$663.72
NOP1-1A	Cable, 1.5 Meter	\$44.25
NOP1-3A	Cable, 3 Meter	\$69.69

Additional Product Notes

All WorldWide Hyundai N700E drives can be used for single-phase input / three-phase output. Consult factory to size appropriately. Always check and verify motor full load amps before selecting a VFD.

N700E Series Variable Frequency Drives Specifications

Specification			Description		
Control Method			Sensorless Vector PWM		
Output Frequency Range			0.01~400Hz		
Frequency Accuracy			Digital: Max Frequency ±0.01% Analog: Max Frequency ±0.1%		
Frequency Resolution			Digital setting: 0.01 Hz (< 100 Hz), 0.1 Hz (> 100 Hz) Analog, DC 5V Input: Max frequency / 500 Analog, DC 0~10V, 4~20mA: Max frequency / 1,000		
V/f Characteristic			Base frequency: 0~400 Hz free set Torque pattern selection available (constant torque / reduced torque)		
Overload Capacity			150%: 60 seconds (heavy duty) 120%: 60 seconds (normal duty)		
Acceleration / Deceleration Time			0.1~3,000 seconds (linear / curve selection available) 2 nd Acceleration / Deceleration setting available		
DC Braking			Performs between minimum frequency and established braking frequency Level and time setting available		
Input	Frequency Setting	Standard Operator	Set via volume up / down keys 1 W, 1~2 kΩ variable resistor		
		External Signal	DC 0~10 V (input impedance 10 kΩ), 4~20 mA (input impedance 250Ω)		
	Forward Reverse Start/Stop	Standard Operator	Run key / Stop key (change forward / reverse by function command)		
		External Signal	Forward run / stop, reverse run / stop set by terminal assignment (1a, 1b selection available)		
	Intelligent Input Terminal		FW (Forward) RV (Reverse) CF-1~4 (Multi-speed) RD (Reset)	AT (Analog input current / voltage transfer) USP (Unattended Start Protection) EXT (External Trip) FRS (Free Run Stop)	JG (Jogging Command) SFT (Software Lock Command) 2CH (2 nd Acc/Dec) SET (2 nd Motor Constants Setting)
Output	Intelligent Output Terminal		RUN (Run Signal) FA1 (Frequency Arrival Signal [at set frequency]) FA2 (Frequency Arrival Signal [at or above set frequency])		OL (Overload Advanced Notice Signal) OD (Output Deviation of PID Signal) AL (Alarm Signal)
	Frequency Monitor		Analog meter (DC0~10V full scale, Max 1 mA) Analog output frequency signal and analog output current signal Analog output voltage signal selection available		
	Alarm Output Contact		Off when inverter alarm (b contact output) / Auto switch ON And OFF Intelligent output terminal use available		
Main Functions			Auto-tuning AVR Function V/F Setting Curve Accel. / Decel. Selection Frequency Upper / Lower Limit, 6 Level Multi-speed Start Frequency Set Carrier Frequency Setting (0.5~15 kHz) PID Control Frequency Jump Analog Gain Bias Control		Jogging Run Electronic Thermal Level Control Retry Auto Torque Boost Trip History Monitor Software Lock S-shape Accel. / Decel. Frequency Conversion Display USP 2nd Control
Protective Functions			Over-current Protection Overload (electronic thermal) Over-voltage Communication Error Under-voltage Output Short		USP Error EEPROM Error External Trip Ground Fault Temperature Trip
Environmental Conditions		Ambient Temperature	-10~50°C (over 40°C: set carrier frequency below 2.0 kHz)		
		Storage Temperature	-20~60°C (while transporting: short time)		
		Ambient Humidity	Below 90% RH (non-condensing)		
		Vibration	5.9 m/s2 (0.6 G). 10~55 Hz (JIS C0911 test methodology)		
		Location	Less than 1,000 m above sea level, Indoor (no corrosive gas, no flammable gas, no oil-drop, no dust)		
Options			Remote Operator Remote Operator Cable Regenerative Braking Resistor		

WorldWide Configured Drive Selection Guide

WCD 3R C - 004 A 4A

WORLDWIDE CONFIGURED
DRIVE
(VARIABLE FREQUENCY)

3R = NEMA 3R ENCLOSURE
4 = NEMA 4 ENCLOSURE
12 = NEMA 12 ENCLOSURE

C = COMBINATION WITH MAIN CIRCUIT BREAKER
BLANK = NO MAIN CIRCUIT BREAKER

VFD AMPERAGE RATING, WITH 60 SECOND 120% OVERLOAD
CAPACITY, (NORMAL DUTY)
CONSULT TABLES FOR 60 SECOND 150% OVERLOAD
CAPACITY, (HEAVY DUTY)

VFD TYPE (MODEL)
A: HYUNDAI N700E
B: WDFC (WORLD DRIVE FLEX CONTROL)

VOLTAGE CODE:
2A: 200-240VAC +/-10%
4A: 380-480VAC +/-10%

+ OPTIONS

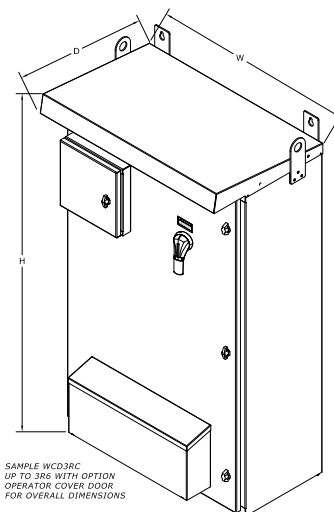
A	EMI/RFI Filter
B	3% Line Reactor (Standard in 3R and SDA)
B2	5% Line Reactor
C	IPHF (Passive Harmonic Filter)
D	2 Contactor Bypass
D2	RVSS Bypass
E	3 Contactor Bypass
F	Output Reactor
G	dV/dT Filter
G2	Output Sinewave Filter
H	On/Off/Auto Switch (2-Wire Control)
I	Speed Pot
J	Start/Stop PB
J2	40mm ESTOP PB
K	Hand/Off/Auto Switch
L	Surge Suppression
M	SID1 Installed
M2	N700E LCD Keypad
M3	WDFC LCD Keypad
M4	WDFC LCD Keypad with 4X cover
M7	SID7 Installed
N	Panel Space Heater, 150W
N2	Panel Space Heater, 50W
O	Green Run Pilot Light
P	Amber Fault Pilot Light and Reset Pushbutton
Q	White Drive Ready Pilot Light
R	Hinged Solid Control Door Cover for 3R
S	Hinged Window Control Door Cover for 3R
R1	4X Clear HMI door cover 10"H x 8"W
U	1.3A, 24VDC Power Supply for Loop Power

WCD Series - Configurable NEMA 3R Enclosed Panels for Hyundai N700E

The WCD Series of Enclosed Drives offer the broadest range of size and configurations in the industry. Simple optional adder codes allow the user to customize as required for the most demanding of applications.

Product Specifications

- » 3HP through 550HP (Hyundai N700E VFD)
- » Three-phase or single-phase input
- » CT and VT ratings
- » Heavy duty NEMA 3R Enclosure
- » Hooded (sloped roof), ventilated and filtered
- » Heavy duty mounting ears and lifting straps
- » Bottom-to-top ventilation (heat-shedding design)
- » Forced-air filtered fans (positive pressure design)
- » Galvanized back panel
- » Heater package option available
- » Concealed hinges and padlockable door
- » Padlock disconnect on main CB
- » 3% line reactors
- » Control transformer with CB protection
- » Dual control thermostat



Voltage	Constant Torque		Variable Torque		Enclosure H x W x D (in)	Model Number	List Price
	Heavy Duty		Normal Duty				
	HP	Current	HP	Current			
230	3	11.0	-	-	32 x 25 x 17	WCD3RC-011A2A	\$7,319.00
230	5	17.0	-	-	32 x 25 x 17	WCD3RC-017A2A	\$7,454.00
230	7.5	24	10	30	32 x 25 x 17	WCD3RC-030A2A	\$8,442.00
230	10	32	15	44	32 x 25 x 17	WCD3RC-040A2A	\$8,895.00
230	15	45	20	50	32 x 25 x 17	WCD3RC-050A2A	\$9,510.00
230	20	64	25	73	40 x 25 x 19	WCD3RC-073A2A	\$10,709.00
230	25	76	30	85	40 x 25 x 19	WCD3RC-085A2A	\$11,148.00
230	30	90	40	90	40 x 25 x 19	WCD3RC-090A2A	\$12,106.00
230	40	114	50	140	50 x 31 x 21	WCD3RC-150A2A	\$15,495.00
230	50	140	60	170	56 x 37 x 23	WCD3RC-170A2A	\$17,029.00
230	60	170	75	205	56 x 37 x 23	WCD3RC-205A2A	\$19,590.00
230	75	211	100	261	63 x 37 x 25	WCD3RC-261A2A	\$21,658.00
230	100	251	125	310	63 x 37 x 25	WCD3RC-310A2A	\$27,271.00
460	3	7.2	3	7.2	32 x 25 x 17	WCD3RC-007A4A	\$7,600.00
460	5	9.2	5	9.2	32 x 25 x 17	WCD3RC-009A4A	\$7,817.00
460	7.5	12	10	15	32 x 25 x 17	WCD3RC-015A4A	\$8,792.00
460	10	16	15	22	32 x 25 x 17	WCD3RC-022A4A	\$9,579.00
460	15	23	20	29	32 x 25 x 17	WCD3RC-029A4A	\$10,367.00
460	20	32	25	37	40 x 25 x 19	WCD3RC-037A4A	\$11,155.00
460	25	38	30	43	40 x 25 x 19	WCD3RC-043A4A	\$11,945.00
460	30	45	40	57	40 x 25 x 19	WCD3RC-057A4A	\$13,526.00
460	40	58	50	70	50 x 31 x 21	WCD3RC-070A4A	\$15,750.00
460	50	75	60	85	50 x 31 x 21	WCD3RC-085A4A	\$17,500.00
460	60	90	75	105	50 x 31 x 21	WCD3RC-105A4A	\$20,570.00
460	75	110	100	135	50 x 31 x 21	WCD3RC-135A4A	\$23,085.00
460	100	149	125	160	56 x 37 x 23	WCD3RC-160A4A	\$28,635.00
460	125	176	150	195	56 x 37 x 23	WCD3RC-195A4A	\$32,659.00
460	150	217	200	230	63 x 37 x 25	WCD3RC-230A4A	\$39,289.00
460	200	260	250	285	63 x 37 x 25	WCD3RC-285A4A	\$45,000.00
460	250	300	300	370	68 x 38 x 25	WCD3RC-370A4A	\$59,840.00
460	300	415	350	450	68 x 38 x 25	WCD3RC-450A4A	\$64,232.00
460	400	525	450	600	88 x 65 x 31	WCD3RC-600A4A	\$86,631.00
460	500	656	550	680	88 x 65 x 31	WCD3RC-680A4A	\$98,822.00

Additional Product Notes

Consult factory for single phase input ratings

WCD Series - Configurable NEMA 3R Enclosed Panel Options for Hyundai N700E

The WCD Series of Enclosed Drives offer the broadest range of size and configurations in the industry. Simple optional adder codes allow the user to customize as required for the most demanding of applications.

Options	Option Adder Codes / List Prices (Add codes at end of base model number in alpha order)					
480 V Model Number	5% Line Reactor Upgrade	IEEE Harmonic Filter Upgrade	2 Contactor Bypass	3 Contactor Bypass	Output Reactor	DV / DT Filter
	B ⁽¹⁾	C ⁽¹⁾	D ⁽¹⁾	E ⁽¹⁾	F ⁽¹⁾	G ⁽¹⁾
WCD3RC-007A4A	\$119.00	\$4,588.00	\$1,541.00	\$1,744.00	\$891.00	\$1,585.00
WCD3RC-009A4A	\$119.00	\$4,588.00	\$1,542.00	\$1,745.00	\$891.00	\$1,635.00
WCD3RC-015A4A	\$148.00	\$4,728.00	\$1,911.00	\$2,125.00	\$991.00	\$1,650.00
WCD3RC-022A4A	\$159.00	\$4,848.00	\$2,022.00	\$2,301.00	\$1,004.00	\$1,965.00
WCD3RC-029A4A	\$164.00	\$5,913.00	\$3,006.00	\$3,339.00	\$1,129.00	\$2,205.00
WCD3RC-037A4A	\$234.00	\$6,538.00	\$3,248.00	\$3,602.00	\$1,247.00	\$2,280.00
WCD3RC-043A4A	\$234.00	\$7,552.00	\$3,600.00	\$4,071.00	\$1,385.00	\$2,380.00
WCD3RC-057A4A	\$264.00	\$9,314.00	\$4,613.00	\$5,135.00	\$1,417.00	\$2,440.00
WCD3RC-070A4A	\$398.00	\$9,761.00	\$5,077.00	\$5,758.00	\$1,794.00	\$3,310.00
WCD3RC-085A4A	\$421.00	\$10,559.00	\$5,221.00	\$5,962.00	\$1,912.00	\$3,865.00
WCD3RC-105A4A	\$421.00	\$11,882.00	\$5,946.00	\$6,915.00	\$2,130.00	\$3,920.00
WCD3RC-135A4A	\$461.00	\$14,270.00	\$6,293.00	\$7,558.00	\$2,468.00	\$4,565.00
WCD3RC-160A4A	\$472.00	\$15,724.00	\$7,086.00	\$8,766.00	\$2,724.00	\$4,990.00
WCD3RC-195A4A	\$524.00	\$23,380.00	\$7,758.00	\$9,912.00	\$3,127.00	\$5,370.00
WCD3RC-230A4A	\$710.00	\$24,775.00	\$8,429.00	\$10,887.00	\$4,009.00	\$5,610.00
WCD3RC-285A4A	\$741.00	\$27,062.00	\$14,451.00	\$17,703.00	\$4,428.00	\$6,145.00
WCD3RC-370A4A	\$786.00	\$33,942.00	\$16,141.00	\$20,081.00	\$4,505.00	\$6,935.00
WCD3RC-450A4A	\$794.00	\$46,632.00	\$14,038.00	\$19,465.00	\$6,194.00	\$8,405.00
WCD3RC-600A4A	\$1,345.00	\$56,034.00	\$22,514.00	\$32,460.00	\$8,745.00	\$11,732.00
WCD3RC-680A4A	\$1,458.00	\$56,034.00	\$22,514.00	\$32,460.00	\$10,090.00	\$14,205.00

Option Code	Option Description	List Price
H ⁽²⁾	On-Off-Auto Selector Switch	\$294.00
I ⁽²⁾	Speed Potentiometer	\$534.00
J ⁽²⁾	Start/Stop Pushbuttons	\$560.00
K ⁽²⁾	Hand-Off-Auto Selector Switch	\$294.00
L ⁽²⁾	Surge Suppression	\$960.00
M ⁽²⁾	Installed SID1 Text Keypad	\$1,995.00
M2 ⁽²⁾	Remote Mount LCD Keypad	\$663.72
M7 ⁽²⁾	Installed SID7 Operator Interface	\$5,867.00

Option Code	Option Description	List Price
N ⁽²⁾	Panel Space Heater - 150W	\$747.00
O ⁽²⁾	Green Run Pilot Light	\$294.00
P ⁽²⁾	Amber Fault Pilot Light and Reset Pushbutton	\$575.00
Q ⁽²⁾	White Drive Ready Pilot Light	\$267.00
R ⁽²⁾	Lockable, solid control door cover	\$907.00
S ⁽²⁾	Lockable, window control door cover	\$1,064.00
T ⁽²⁾	24 / 7 timer	\$700.00
U ⁽²⁾	1.3A, 24VDC Power Supply for Loop Power	\$406.00

*Stocked Panels

Available for immediate delivery

Model Number	List Price
WCD3RC-029A4A+HI	\$11,377.21
WCD3RC-037A4A+HI	\$12,703.54
WCD3RC-057A4A+HI	\$14,248.89
WCD3RC-085A4A+HI	\$18,328.00
WCD3RC-105A4A+HI	\$22,527.65
WCD3RC-160A4A+HI	\$31,024.34
WCD3RC-195A4A+HI	\$35,263.27
WCD3RC-230A4A+HI	\$41,345.00

Additional Product Notes

For 770B4A & 960B4A, consult factory.

- (1) Options B, C, D, E, F, G may result in enclosure dimensional changes

- (1) Price includes changes

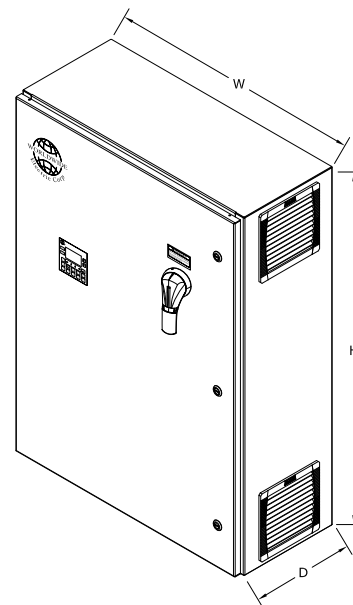
- (2) All other options are common - no dimensional changes

WWESDA Series - Standard Duty NEMA 12 Enclosed Panels for Hyundai N700E

The WWESDA Series of Standard Duty Drive Packages provides the user with feature sets that allow for quick and easy configuration.

Product Specifications

- » 3HP through 550HP (Hyundai N700E VFD)
- » Three-phase or single-phase input
- » CT and VT ratings
- » Standard duty NEMA 12 indoor rated enclosure
- » Forced-air filtered fans (positive pressure design)
- » Padlock disconnect on main CB
- » 3% line reactors
- » Control transformer with CB protection
- » Dual control thermostat
- » SID1 (Smart Interface Device) with extended functions



Voltage ⁽¹⁾	Constant Torque		Variable Torque		Dimensions (in.) H x W x D	Model Number	List Price
	Heavy Duty		Normal Duty				
	HP	Current	HP	Current			
480	3	7.2	3	7.2	20 x 16 x 8	WWESDA-DRV12-003-4	\$8,844.03
480	5	9.2	5	9.2	20 x 16 x 8	WWESDA-DRV12-005-4	\$9,015.49
480	7.5	12	10	15	30 x 20 x 10	WWESDA-DRV12-007-4	\$10,896.02
480	10	16	15	22	30 x 20 x 10	WWESDA-DRV12-010-4	\$11,338.50
480	15	23	20	29	30 x 20 x 10	WWESDA-DRV12-015-4	\$12,057.52
480	20	32	25	37	36 x 24 x 12	WWESDA-DRV12-020-4	\$12,831.86
480	25	38	30	43	36 x 24 x 12	WWESDA-DRV12-025-4	\$13,495.58
480	30	45	40	57	36 x 24 x 12	WWESDA-DRV12-030-4	\$14,269.91
480	40	58	50	70	42 x 30 x 16	WWESDA-DRV12-040-4	\$17,367.26
480	50	75	60	85	42 x 30 x 16	WWESDA-DRV12-050-4	\$19,469.03
480	60	90	75	105	42 x 30 x 16	WWESDA-DRV12-060-4	\$21,792.04
480	75	110	100	135	42 x 30 x 16	WWESDA-DRV12-075-4	\$23,672.57
480	100	149	125	160	48 x 30 x 16	WWESDA-DRV12-100-4	\$28,207.96
480	125	176	150	195	48 x 30 x 16	WWESDA-DRV12-125-4	\$31,747.79
480	150	217	200	230	60 x 36 x 16	WWESDA-DRV12-150-4	\$37,721.24
480	200	260	250	285	60 x 36 x 16	WWESDA-DRV12-200-4	\$40,929.20
480	250	300	300	370	84 x 39.5 x 24	WWESDA-DRV12-250-4	\$60,176.99
480	300	415	350	450	84 x 39.5 x 24	WWESDA-DRV12-300-4	\$63,495.58
480	400	525	450	600	Consult Factory	WWESDA-DRV12-400-4	\$90,984.51
480	500	656	550	680	Consult Factory	WWESDA-DRV12-500-4	\$99,834.07

Additional Product Notes

- (1) Also available in three-phase, 230-volt; consult factory.

WDGP Series General Purpose VFDs

Built with you, the user in mind. Specializing in simplicity without sacrificing performance, the WorldDrive General Purpose variable frequency drive is built with V/F, Slip Compensation and Sensorless Vector control and has a compact footprint in 6 frame sizes: 0.5HP to 30HP. A user friendly keypad interface allows for fast and easy parameterization in all of your general purpose applications. UL, cUL Listed and CE Certified.

Product Specifications

- » V/F, Slip Compensation control, Sensorless Vector Control
- » 150% overload for 60 sec
- » 200-230V, Single-phase, 0.5-2HP
- » 200-230V, Three-phase, 1-30HP
- » 380-480V, Three-phase, 1-30HP
- » Input voltage range: 200-230V Single / Three Phase (-15%, +10%)
- » Input voltage range: 380-480V Three Phase (-15%, +10%)
- » Output Frequency: 0-400Hz Sensorless: 0-300Hz
- » Carrier Frequency: 1-15kHz
- » Protection degree: NEMA 1 / IP20
- » Conformal Coated printed circuit boards
- » Built-in: Modbus-RTU
- » UL, cUL, CE Certified



240 Volt, Single-Phase In / 240 Volt, Three-Phase Out

HP	Output Current	Model Number	List Price	Dimensions (in) H x W x D	Approx. Weight (lbs.)	Conduit Connection Box NEMA 1 Enclosure	
						Model Number	List Price
0.5	3	WDGP004-1	\$566.37	5 x 2.8 x 5.1	1.68	WDGPCBOX-1	\$92.92
1	5	WDGP008-1	\$589.60	5 x 2.8 x 5.1	1.68	WDGPCBOX-2	\$101.77
2	7	WDGP015-1	\$683.63	5 x 5.5 x 6.1	4.17	WDGPCBOX-3	\$110.62

230 Volt, Three-Phase In / 230 Volt, Three-Phase Out

Constant Torque 150% Overload		Variable Torque 120% Overload		Model Number	List Price	Dimensions (in) H x W x D	Approx. Weight (lbs.)	Conduit Connection Box NEMA 1 Enclosure	
HP	Output Current	HP	Output Current					Model Number	List Price
0.5	3	—	—	WDGP004-2	\$551.99	5 x 2.8 x 5.1	1.68	WDGPCBOX-1	\$92.92
1	5	—	—	WDGP008-2	\$571.90	5 x 2.8 x 5.1	1.68	WDGPCBOX-1	\$92.92
2	7	—	—	WDGP015-2	\$673.67	5 x 3.9 x 5.1	2.47	WDGPCBOX-2	\$101.77
3	11	—	—	WDGP022-2	\$730.09	5 x 5.5 x 6.1	4.17	WDGPCBOX-3	\$110.62
5	17	—	—	WDGP037-2	\$936.95	5 x 5.5 x 6.1	4.17	WDGPCBOX-3	\$110.62
7.5	24	10	30	WDGP055-2	\$1,670.35	8.7 x 7 x 6.7	8.07	WDGPCBOX-4	\$119.47
10	32	15	44	WDGP075-2	\$1,973.45	8.7 x 7 x 6.7	8.07	WDGPCBOX-4	\$119.47
15	45	20	50	WDGP110-2	\$2,528.76	12.6 x 9.3 x 7.5	19.84	WDGPCBOX-5	\$128.32
20	64	25	73	WDGP150-2	\$2,921.46	12.6 x 9.3 x 7.5	19.84	WDGPCBOX-5	\$128.32
25	76	30	85	WDGP185-2	\$3,246.68	16.1 x 10.2 x 8.2	29.32	WDGPCBOX-6	\$137.17
30	90	40	120	WDGP220-2	\$3,801.99	16.1 x 10.2 x 8.2	29.32	WDGPCBOX-6	\$137.17

460 Volt, Three-Phase In / 460 Volt, Three-Phase Out

Constant Torque 150% Overload		Variable Torque 120% Overload		Model Number	List Price	Dimensions (in) H x W x D	Approx. Weight (lbs.)	Conduit Connection Box NEMA 1 Enclosure	
HP	Output Current	HP	Output Current					Model Number	List Price
0.5	1.8	—	—	WDGP004-4	\$700.22	5 x 2.8 x 5.1	1.68	WDGPCBOX-1	\$92.92
1	3.4	—	—	WDGP008-4	\$734.51	5 x 2.8 x 5.1	1.68	WDGPCBOX-1	\$92.92
2	4.8	—	—	WDGP015-4	\$847.35	5 x 3.9 x 5.1	2.47	WDGPCBOX-2	\$101.77
3	7.2	—	—	WDGP022-4	\$1,059.73	5 x 5.5 x 6.1	4.17	WDGPCBOX-3	\$110.62
5	9.2	—	—	WDGP037-4	\$1,188.05	5 x 5.5 x 6.1	4.17	WDGPCBOX-3	\$110.62
7.5	12	10	15	WDGP055-4	\$1,654.87	8.7 x 7 x 6.7	8.07	WDGPCBOX-4	\$119.47
10	16	15	22	WDGP075-4	\$2,024.34	8.7 x 7 x 6.7	8.07	WDGPCBOX-4	\$119.47
15	23	20	29	WDGP110-4	\$2,529.87	12.6 x 9.3 x 7.5	19.84	WDGPCBOX-5	\$128.32
20	32	25	37	WDGP150-4	\$2,922.57	12.6 x 9.3 x 7.5	19.84	WDGPCBOX-5	\$128.32
25	38	30	43	WDGP185-4	\$3,246.68	16.1 x 10.2 x 8.2	22.05	WDGPCBOX-6	\$137.17
30	45	40	57	WDGP220-4	\$3,879.42	16.1 x 10.2 x 8.2	22.05	WDGPCBOX-6	\$137.17

WDGP Accessories

Optional accessories for the WorldDrive General Purpose VFD to help finish out projects, provide additional NEMA 1 protection or panel mount the WDGP.

WDGP Conduit Box

The WDGP Conduit Box provides NEMA 1 protection to the terminals of the WDGP.



Conduit Box



Conduit Box
(Drive sold separately)



WDGP 240V Single-Phase In/Three-Phase Out

Conduit Connection Box NEMA 1 Enclosure	List Price	Ordering Notes
WDGPCBOX-1	\$92.92	Use with WDGP004-1
WDGPCBOX-2	\$101.77	Use with WDGP008-1
WDGPCBOX-3	\$110.62	Use with WDGP015-1

WDGP 240V Three-Phase In/Three-Phase Out

WDGPCBOX-1	\$92.92	Use with WDGP004-2
WDGPCBOX-1	\$92.92	Use with WDGP008-2
WDGPCBOX-2	\$101.77	Use with WDGP015-2
WDGPCBOX-3	\$110.62	Use with WDGP022-2
WDGPCBOX-3	\$110.62	Use with WDGP037-2
WDGPCBOX-4	\$119.47	Use with WDGP055-2
WDGPCBOX-4	\$119.47	Use with WDGP075-2
WDGPCBOX-5	\$128.32	Use with WDGP110-2
WDGPCBOX-5	\$128.32	Use with WDGP150-2
WDGPCBOX-6	\$137.17	Use with WDGP185-2
WDGPCBOX-6	\$137.17	Use with WDGP220-2

WDGP 480V Three-Phase In/Three-Phase Out

WDGPCBOX-1	\$92.92	Use with WDGP004-4
WDGPCBOX-1	\$92.92	Use with WDGP008-4
WDGPCBOX-2	\$101.77	Use with WDGP015-4
WDGPCBOX-3	\$110.62	Use with WDGP022-4
WDGPCBOX-3	\$110.62	Use with WDGP037-4
WDGPCBOX-4	\$119.47	Use with WDGP055-4
WDGPCBOX-4	\$119.47	Use with WDGP075-4
WDGPCBOX-5	\$128.32	Use with WDGP110-4
WDGPCBOX-5	\$128.32	Use with WDGP150-4
WDGPCBOX-6	\$137.17	Use with WDGP185-4
WDGPCBOX-6	\$137.17	Use with WDGP220-4

WDGP Remote Cable with Keypad

The WDGP Remote Cable with Keypad allows you to panel mount the keypad and cable to the drive. Ideal for enclosed systems, or where drive placement is not ideal for operator control.



Remote Cable with Keypad	List Price	Ordering Notes
WDGPCABLE-2	\$139.38	For use with WDGP Drives. Includes 2M ¹ cable and remote Keypad

¹M = Meters

Additional Product Notes

WorldDrive GP accessories are not compatible with WDFC, WD4X or N700E Drives.

WD4X Series NEMA 4X VFDs

Built to withstand the most demanding conditions nature can throw its way, the WorldDrive 4X variable frequency drive comes standard with V/F, Slip Compensation and Sensorless Vector control, all in an IP66 / NEMA 4X enclosure. Ratings from .5HP to 30HP are available for your requirements along with an intuitive on-board keypad interface allowing for fast and easy parameterization in all of your IP66 / NEMA 4X applications. UL, cUL Listed and CE Certified.

Product Specifications

- » V/F, Slip Compensation control, Sensorless Vector Control
- » 150% overload for 60 sec
- » 200-230V, Single-phase, 0.5-2HP
- » 200-230V, Three-phase, 1-30HP
- » 380-480V, Three-phase, 1-30HP
- » Input voltage range: 200-230V Single / Three Phase (-15%, +10%)
- » Input voltage range: 380-480V Three Phase (-15%, +10%)
- » Output Frequency: 0-400Hz Sensorless: 0-300Hz
- » Carrier Frequency: 1-15kHz
- » Protection degree: NEMA 4X / IP66
- » Conformal Coated printed circuit boards
- » Built-in: Modbus-RTU
- » UL, cUL, CE Certified



230 Volt										
UL Three Phase		UL Single Phase Variable Torque Normal Duty			Additional Data		Model	List Price	Dimensions H x W x D (in)	Approx. Weight (lbs)
Constant Torque 150% Overload		Single Phase Input		Three Phase Output	Built-in EMC Filter	Built-in DC Reactor				
HP	Amps	HP	Amps	Amps	NO	NO				
0.5	2.5	---	2.2	1.5						
1	5	0.5	4.9	2.8						
2	8	1	8.4	4.6						
3	11	1.5	11.8	6.1						
5	16	2	17.5	8.8						
7.5	24	3	25.8	13						
10	32	5	34.9	18						
15	46	7.5	50.8	26						
20	60	10	66.7	33						
460 Volt										
0.5	1.3	---	1.1	0.8	NO	NO	WD4X004-4	\$1,112.83	9.1 x 6.3 x 7.1	8
1	2.5	0.5	2.4	1.5			WD4X008-4	\$1,128.32	9.1 x 6.3 x 7.1	8
2	4.0	0.75	4.2	2.3			WD4X015-4	\$1,184.73	9.1 x 6.3 x 7.1	8
3	5.5	1	5.9	3.1			WD4X022-4	\$1,380.53	9.1 x 6.3 x 7.1	8
5	8.0	2	8.7	4.8			WD4X037-4	\$2,244.47	9.1 x 6.3 x 7.1	8
7.5	12.0	3	12.9	7.1			WD4X055-4	\$2,473.45	9.1 x 6.3 x 7.1	8
10	16.0	5	17.5	9.5			WD4X075-4	\$2,702.43	9.1 x 6.3 x 7.1	8
15	24.0	7.5	26.5	15.0			WD4X110-4	\$2,840.71	11.4 x 7.1 x 8.1	11
20	30.0	10	33.4	18.0			WD4X150-4	\$3,368.36	11.4 x 7.1 x 8.1	11
25	39.0	10	43.6	23.0			WD4X185-4	\$3,422.57	13.8 x 8.7 x 8.8	17
30	45.0	15	50.7	27.0			WD4X220-4	\$3,630.53	13.8 x 8.7 x 8.8	17

Additional Product Notes

For the WD4X, no additional options apply.

WDFC Series Flex Control VFDs

The WDFC gives you the flexibility to do more with more applications from conveyors to pumps and most everything in between, with industry leading on-board feature sets suitable for almost anything you can throw its way. The WorldDrive Flex Control variable frequency drive is built with V/F, Slip Compensation and Sensorless Vector control and has a commanding footprint in 11 frame sizes: .5HP - 800HP. UL, cUL Listed and CE Certified.



Product Specifications

- » V/F, Sensorless Vector Control, Slip Compensation
- » 150% overload for 60 sec, CT
- » 120% overload for 60 sec, VT
- » 240V, Single-phase, 0.5-10HP
- » 240V, Three-phase, 1-25 HP VT / 0.5-20 HP CT
- » 480V, Three-phase, 1-800 HP VT / 650 HP CT
- » Input voltage range: 200-240V Single / Three Phase (-15%, +10%)
- » Input voltage range: 380-480V Three Phase (-15%, +10%)
- » Output Frequency: 0-400Hz
- » Sensorless: 0-120Hz
- » Carrier Frequency: Normal Duty: 1-15kHz
- » Protection degree: NEMA 1 / IP20
- » Conformal Coated printed circuit boards
- » Built-in: Modbus-RTU
- » UL, cUL, CE Certified

230 Volt												
UL Three Phase				UL Single Phase Variable Torque Normal Duty			Additional Data		Model	List Price	Dimensions H x W x D (in)	Approx. Weight (lbs)
Constant Torque 150% Overload		Variable Torque 120% Overload		Single Phase Input		Three Phase Output	Built-in EMC Filter	Built-in DC Reactor				
HP	Amps	HP	Amps	HP	Amps	Amps						
0.5	2.5	1	5	0.5	4.9	2.9	NO	NO	WDFC0008-2	\$882.74	9.1 x 6.3 x 7.1	8
1	5.0	2	8	1	8.4	4.4			WDFC0015-2	\$1,039.82	9.1 x 6.3 x 7.1	8
2	8.0	3	12	1.5	12.9	6.4			WDFC0022-2	\$1,272.12	9.1 x 6.3 x 7.1	8
3	11.0	5	16	2	17.5	8.4			WDFC0037-2	\$1,337.39	9.1 x 6.3 x 7.1	8
5	17.0	7.5	22	3	23.7	11			WDFC0055-2	\$1,862.83	9.1 x 6.3 x 7.1	8
7.5	24.0	10	30	5	32.7	16			WDFC0075-2	\$2,088.50	9.1 x 6.3 x 7.1	8
10	32.0	15	42	5	46.4	23			WDFC0110-2	\$2,721.24	9.1 x 6.3 x 7.1	8
15	46.0	20	56	7.5	62.3	30			WDFC0150-2	\$3,269.91	11.4 x 7.1 x 8.1	11
20	60.0	25	69	10	77.2	37			WDFC0185-2	\$3,984.51	13.8 x 8.7 x 8.8	16
460 Volt												
0.5	1.3	1	2.5	0.5	2.4	1.6	YES	NO	WDFC0008-4	\$964.60	9.1 x 6.3 x 7.1	8
1	2.5	2	4	1	4.2	2.4			WDFC0015-4	\$1,032.08	9.1 x 6.3 x 7.1	8
2	4.0	3	6	1.5	6.5	3.5			WDFC0022-4	\$1,140.49	9.1 x 6.3 x 7.1	8
3	5.5	5	8	2	8.7	4.6			WDFC0037-4	\$1,219.03	9.1 x 6.3 x 7.1	8
5	8.0	7.5	12	3	12.2	6.8			WDFC0055-4	\$1,485.62	9.1 x 6.3 x 7.1	8
7.5	12.0	10	16	5	17.5	9.2			WDFC0075-4	\$2,024.34	9.1 x 6.3 x 7.1	8
10	15.0	15	24	7.5	26.5	14			WDFC0110-4	\$2,332.96	9.1 x 6.3 x 7.1	8
15	22.0	20	30	10	33.4	17			WDFC0150-4	\$2,992.26	11.4 x 7.1 x 8.1	11
20	28.0	25	38	10	42.5	22			WDFC0185-4	\$3,860.62	11.4 x 7.1 x 8.1	11
25	35.0	30	45	15	50.7	26			WDFC0220-4	\$4,396.02	13.8 x 8.7 x 8.8	17
30	41.0	40	61	20	69.1	36			WDFC0300-4	\$5,290.93	13.8 x 8.7 x 8.8	17
40	55.0	50	75	25	69.3	39	NO	YES	WDFC0370-4	\$6,965.71	17.7 x 10.8 x 11.2	58
50	67.0	60	91	30	84.6	47			WDFC0450-4	\$8,214.60	20.1 x 12.8 x 11.2	95
60	81.0	75	107	40	100.1	55			WDFC0550-4	\$8,856.19	20.1 x 12.8 x 11.2	95
75	106.0	100	142	50	133.6	73			WDFC0750-4	\$10,476.77	21.7 x 12.8 x 12.2	95
100	136.0	125	169	60	160.0	86			WDFC0900-4	\$12,717.92	21.7 x 12.8 x 12.2	95
125	169.0	150 *	223	60	215.1	86			WDFC1100-4	\$16,595.13	27.8 x 11.8 x 15.2	123
150	195.0	200 *	264	75	254.6	101	YES	YES	WDFC1320-4	\$19,863.94	27.8 x 11.8 x 15.2	123
200	255.0	250 *	325	100	315.3	137			WDFC1600-4	\$22,233.41	27.8 x 15.0 x 15.6	165
250	303.0	300 *	370	125	358.9	157			WDFC1850-4	\$40,715.71	27.8 x 15.0 x 15.6	165
250	345.0	350 *	432	150	419.1	181			WDFC2200-4	\$42,936.95	36.3 x 17.3 x 17.3	265
300	375.0	400 *	481	150	469.3	195			WDFC2500-4	\$55,268.81	36.3 x 17.3 x 17.3	265
400	478.0	500 *	613	150	598.1	218			WDFC3150-4	\$59,747.79	39.4 x 23.6 x 19.7	409
450	541.0	550 *	683	200	666.4	245			WDFC3550-4	\$66,369.47	39.4 x 23.6 x 19.7	409
500	591.0	650 *	770	250	751.3	308			WDFC4000-4	\$77,227.88	39.4 x 23.6 x 19.7	409
650	740.0	800 *	962	350	938.6	414			WDFC5000-4	\$88,381.64	41.5 x 30.6 x 19.7	585

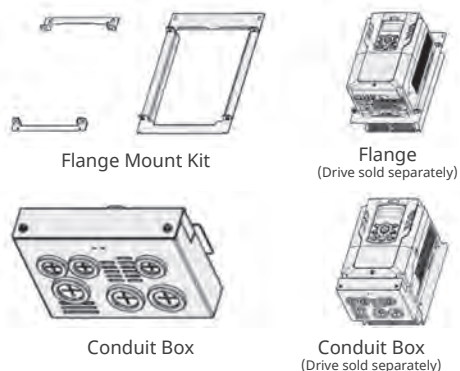
Additional Product Notes

* Variable Torque: 110% Overload

WDFC Accessories

Optional accessories for the WorldDrive Flex Control VFD to help finish out projects, provide additional NEMA 1 protection or panel mount the WDFC.

Flange Mount Kits, Conduit Boxes



Flange Mount Kit (Heat sink out back)		Ordering Notes	Conduit Connection Box NEMA 1 Enclosure	
Model Number	List Price		List Price	Model Number
WDFCFM-1	\$159.60	Use with WDFC0008-2	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0015-2	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0022-2	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0037-2	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0055-2	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0075-2	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0110-2	\$111.73	WDFCCBOX-1
WDFCFM-2	\$159.60	Use with WDFC0150-2	\$111.73	WDFCCBOX-2
WDFCFM-3	\$159.60	Use with WDFC0185-2	\$111.73	WDFCCBOX-3
WDFCFM-1	\$159.60	Use with WDFC0008-4	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0015-4	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0022-4	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0037-4	\$111.73	WDFCCBOX-1
WDFCFM-1	\$159.60	Use with WDFC0055-4	\$111.73	WDFCCBOX-1
WDFCFM-1	\$175.56	Use with WDFC0075-4	\$122.79	WDFCCBOX-1
WDFCFM-1	\$175.56	Use with WDFC0110-4	\$122.79	WDFCCBOX-1
WDFCFM-2	\$175.56	Use with WDFC0150-4	\$122.79	WDFCCBOX-2
WDFCFM-2	\$193.12	Use with WDFC0185-4	\$132.74	WDFCCBOX-2
WDFCFM-3	\$193.12	Use with WDFC0220-4	\$132.74	WDFCCBOX-3
WDFCFM-3	\$193.12	Use with WDFC0300-4	\$132.74	WDFCCBOX-3
WDFCFM-4	\$212.42	Use with WDFC0370-4	\$143.81	WDFCCBOX-4
WDFCFM-5	\$233.67	Use with WDFC0450-4	\$154.87	WDFCCBOX-5
WDFCFM-5	\$233.67	Use with WDFC0550-4	\$154.87	WDFCCBOX-5
WDFCFM-6	\$257.04	Use with WDFC0750-4	\$164.82	WDFCCBOX-6
WDFCFM-6	\$257.04	Use with WDFC0900-4	\$164.82	WDFCCBOX-6
WDFCFM-7	\$743.00	Use with WDFC1100-4	\$437.00	WDFCCBOX-7
WDFCFM-7	\$743.00	Use with WDFC1320-4	\$437.00	WDFCCBOX-7
WDFCFM-8	\$751.00	Use with WDFC1600-4	\$587.00	WDFCCBOX-8
WDFCFM-8	\$751.00	Use with WDFC1850-4	\$587.00	WDFCCBOX-8
WDFCFM-9	\$882.00	Use with WDFC2200-4	\$594.00	WDFCCBOX-9
WDFCFM-9	\$882.00	Use with WDFC2500-4	\$594.00	WDFCCBOX-9
WDFCFM-10	\$957.00	Use with WDFC3150-4	\$945.00	WDFCCBOX-10
WDFCFM-10	\$957.00	Use with WDFC3550-4	\$945.00	WDFCCBOX-10
WDFCFM-10	\$957.00	Use with WDFC4000-4	\$945.00	WDFCCBOX-10
WDFCFM-11	\$1,104.00	Use with WDFC5000-4	\$1,070.00	WDFCCBOX-11

Additional Product Notes

WorldDrive FC accessories are not compatible with WDFC, WD4X or N700E drives.

WDFC Remote Cable with Keypad



The WDFCCABLELCD provides a convenient method to panel mount the LCD keypad when deployed in NEMA 1 applications.

NEMA 1 Bezel and Cable Kit	List Price	Ordering Notes
WDFCCABLELCD-1 (2M ¹)	\$159.29	For use with WDFC drives
WDFCCABLELCD-2 (3M ¹)	\$159.29	

¹M = Meters

WDFC NEMA 4X Keypad Mount



The WDFC4XMOUNT provides NEMA 4X protection for the keypad when mounted in a remote configuration.

NEMA 4X Mount	List Price	Ordering Notes
WDFC4XMOUNT	\$573.01	For use with WDFC drives
Cable for DrivePro (PC Connection)	List Price	Ordering Notes
WDFCCABLEDVP	\$159.29	For use with WDFC and WDFC. DrivePro software available for free from www.wec.co/DVDP

WorldWide Configured Drive Selection Guide

WCD 3R C - 004 B 4A

WORLDWIDE CONFIGURED
DRIVE
(VARIABLE FREQUENCY)

3R: NEMA 3R ENCLOSURE
4: NEMA 4 ENCLOSURE
12: NEMA 12 ENCLOSURE

C: COMBINATION WITH MAIN CIRCUIT BREAKER
BLANK: NO MAIN CIRCUIT BREAKER

VFD AMPERAGE RATING, WITH 60 SECOND 120% OVERLOAD
CAPACITY, (NORMAL DUTY)
CONSULT TABLES FOR 60 SECOND 150% OVERLOAD
CAPACITY, (HEAVY DUTY)

VFD TYPE (MODEL)
A: HYUNDAI N700E
B: WDFC (WORLDWIDE FLEX CONTROL)

VOLTAGE CODE:
2A: 200-240VAC +/-10%
4A: 380-480VAC +/-10%

+ OPTIONS

A	EMI/RFI Filter
B	3% Line Reactor (Standard in 3R and SDA)
B2	5% Line Reactor
C	IPHF (Passive Harmonic Filter)
D	2 Contactor Bypass
D2	RVSS Bypass
E	3 Contactor Bypass
F	Output Reactor
G	dV/dT Filter
G2	Output Sinewave Filter
H	On/Off/Auto Switch (2-Wire Control)
I	Speed Pot
J	Start/Stop PB
J2	40mm ESTOP PB
K	Hand/Off/Auto Switch
L	Surge Suppression
M	SID1 Installed
M2	N700E LCD Keypad
M3	WDFC LCD Keypad
M4	WDFC LCD Keypad with 4X cover
M7	SID7 Installed
N	Panel Space Heater, 150W
N2	Panel Space Heater, 50W
O	Green Run Pilot Light
P	Amber Fault Pilot Light and Reset Pushbutton
Q	White Drive Ready Pilot Light
R	Hinged Solid Control Door Cover for 3R
S	Hinged Window Control Door Cover for 3R
R1	4X Clear HMI door cover 10"H x 8"W
U	1.3A, 24VDC Power Supply for Loop Power

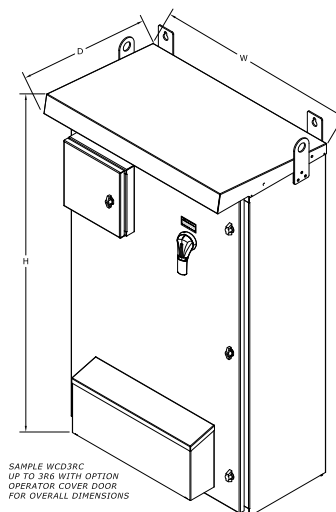
WCD Series - Configurable NEMA 3R Enclosed Panels for WDFC

WCD Worldwide Configured Drive Systems are UL compliant, assembled, tested and readied for operation prior to shipment, with base packages ready for quick delivery.

Product Specifications

- » Door mounted keypad or pilot devices not included with base model
- » 2HP through 800HP with Worldwide Electric WDFC Flex Control VFD
- » 60 Second Overload ratings: 120% Normal Duty, 150% Heavy Duty
- » NEMA 3R Enclosure, hooded roof, filtered forced air cooled & thermostat
- » Heavy duty mounting ears and lifting strap, galvanized back panel
- » Concealed hinges and lockable door latches
- » UL489 Main Circuit Breaker, with lockable disconnect mechanism
- » 3% Input Reactors Standard
- » Control panel transformer with CB protection
- » Options available

	Constant Torque		Variable Torque		Enclosure H x W x D (in)	Model Number	List Price	
	Heavy Duty		Normal Duty					
	HP	Current	HP	Current				
*	230	0.5	2.5	1	5	32 x 25 x 17	WCD3RC-005B2A	\$7,677.00
	230	1	5	2	8	32 x 25 x 17	WCD3RC-008B2A	\$7,857.00
	230	2	8	3	12	32 x 25 x 17	WCD3RC-012B2A	\$8,223.00
	230	3	11	5	16	32 x 25 x 17	WCD3RC-016B2A	\$8,351.00
	230	5	17	7.5	22	32 x 25 x 17	WCD3RC-022B2A	\$8,991.00
	230	7.5	24	10	30	32 x 25 x 17	WCD3RC-030B2A	\$9,319.00
	230	10	32	15	42	32 x 25 x 17	WCD3RC-042B2A	\$10,102.00
	230	15	46	20	56	40 x 25 x 19	WCD3RC-056B2A	\$11,416.00
	230	20	60	25	69	40 x 25 x 19	WCD3RC-069B2A	\$12,935.00
	460	3	6	5	8	32 x 25 x 17	WCD3RC-008B4A	\$7,817.00
	460	5	8.0	8	12	32 x 25 x 17	WCD3RC-012B4A	\$8,792.00
	460	8	12	10.0	16	32 x 25 x 17	WCD3RC-016B4A	\$9,579.00
	460	10.0	15	15	24	32 x 25 x 17	WCD3RC-024B4A	\$10,367.00
	460	15	22	20	30	40 x 25 x 19	WCD3RC-030B4A	\$11,155.00
	460	20	28	25	38	40 x 25 x 19	WCD3RC-038B4A	\$11,945.00
	460	25	35	30	45	40 x 25 x 19	WCD3RC-045B4A	\$13,526.00
	460	30	41	40	61	40 x 25 x 19	WCD3RC-061B4A	\$15,750.00
	*	460	40	55	50	75	50 x 31x 21	WCD3RC-075B4A
460		50	67	60	91	50 x 31x 21	WCD3RC-091B4A	\$20,570.00
460		60	81	75	107	50 x 31x 21	WCD3RC-107B4A	\$23,085.00
460		75	106	100	142	56 x 37 x 23	WCD3RC-142B4A	\$28,635.00
*	460	100	136	125	169	56 x 37 x 23	WCD3RC-169B4A	\$32,659.00
	460	125	169	150	223	63 x 37 x 25	WCD3RC-223B4A	\$39,289.00
*	460	150	195	200	264	63 x 37 x 25	WCD3RC-264B4A	\$45,000.00
	460	200	255	250	325	68 x 38 x 25	WCD3RC-325B4A	\$55,833.00
*	460	250	303	300	370	68 x 38 x 25	WCD3RC-370B4A	\$59,840.00
	460	250	345	350	432	88 x 40 x 31	WCD3RC-432B4A	\$64,232.00
	460	300	375	400	481	88 x 40 x 31	WCD3RC-481B4A	\$73,200.00
	460	400	478	500	613	88 x 65 x 31	WCD3RC-613B4A	\$86,631.00
	460	450	541	550	683	88 x 65 x 31	WCD3RC-683B4A	\$98,822.00
	460	500	591	650	770	88 x 78 x 31	WCD3RC-770B4A	\$116,110.00
	460	650	740	800	960	88 x 78 x 31	WCD3RC-960B4A	\$142,385.00



WCD3RC Options		
Option Code	Option Description	List Price
H	On-Off-Auto Selector Switch	\$294.00
I	Speed Potentiometer	\$534.00
J	Start/Stop Pushbuttons	\$560.00
K	Hand-Off-Auto Selector Switch	\$294.00
L	Surge Suppression	\$960.00
M3	VFD Keypad in door (must be used with option R or S)	\$587.00
M7	SID7 Operator Interface (must be used with option R or S)	\$5,867.00
N	Panel Space Heater	\$747.00
O	Green Run Pilot Light	\$267.00
P	Amber Fault Pilot Light and Reset Pushbutton	\$614.00
Q	White Drive Ready Pilot Light	\$267.00
R	Lockable, solid control door cover	\$907.00
S	Lockable, window control door cover	\$1,064.00
U	1.3A, 24VDC Power Supply for Loop Power	\$406.00

*Stocked Panels

Available for immediate delivery

Model Number	List Price
WCD3RC-069B2A+H,I,M3,R	\$15,257.00
WCD3RC-107B4A+H,I,M3,R	\$25,407.00
WCD3RC-169B4A+H,I,M3,R	\$34,981.00
WCD3RC-264B4A+H,I,M3,R	\$47,322.00
WCD3RC-370B4A+H,I,M3,R	\$58,155.00

Additional Product Notes

Option format: WCD3RC-008B-4A-HI

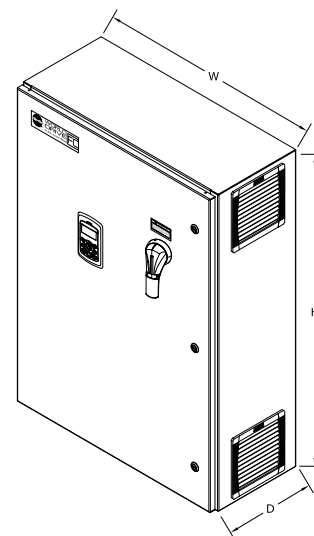
Consult factory for additional options pricing.

WCD Series - Configurable NEMA 12 Enclosed Panels for WDFC

WCD Worldwide Configured Drive Systems are UL compliant, assembled, tested and readied for operation prior to shipment, with base packages ready for quick delivery.

Product Specifications

- » Base panel includes door mounted VFD keypad
- » 3HP through 250HP with Worldwide Electric WDFC Flex Control VFD
- » 60 Second Overload ratings: 120% Normal Duty, 150% Heavy Duty
- » NEMA 12 Enclosure, positive pressure filtered forced air cooled with dual control thermostat
- » Galvanized back panel
- » UL489 Main Circuit Breaker, with lockable disconnect mechanism
- » Control transformer with CB protection
- » Options available



Volts	Constant Torque		Variable Torque		Enclosure H x W x D (in)	Model Number	List Price
	Heavy Duty HP	Amps	Normal Duty HP	Amps			
230	2	8	3	12	30 x 20 x 10	WCD12C-012B2A	\$8,096.00
230	3	11	5	16	30 x 20 x 10	WCD12C-016B2A	\$8,135.00
230	5	17	7.5	22	30 x 20 x 10	WCD12C-022B2A	\$9,363.00
230	7.5	24	10	30	30 x 20 x 10	WCD12C-030B2A	\$9,625.00
230	10	32	15	42	30 x 20 x 10	WCD12C-042B2A	\$10,203.00
230	15	46	20	56	36 x 24 x 12	WCD12C-056B2A	\$11,231.00
230	20	60	25	69	36 x 24 x 12	WCD12C-069B2A	\$12,325.00
460	2	4	3	6	30 x 20 x 10	WCD12C-006B4A	\$7,129.00
460	3	5.5	5	8	30 x 20 x 10	WCD12C-008B4A	\$7,172.00
460	5	8	7.5	12	30 x 20 x 10	WCD12C-012B4A	\$7,361.00
460	7.5	12	10	16	30 x 20 x 10	WCD12C-016B4A	\$8,406.00
460	10	15	15	24	30 x 20 x 10	WCD12C-024B4A	\$8,835.00
460	15	22	20	30	36 x 24 x 12	WCD12C-030B-A	\$9,312.00
460	20	28	25	38	36 x 24 x 12	WCD12C-038B4A	\$10,723.00
460	25	35	30	45	36 x 24 x 12	WCD12C-045B4A	\$11,361.00
460	30	41	40	61	36 x 24 x 12	WCD12C-061B4A	\$12,391.00
460	40	55	50	75	42 x 30 x 16	WCD12C-075B4A	\$14,586.00
460	50	67	60	91	42 x 30 x 16	WCD12C-091B4A	\$15,634.00
460	60	81	75	107	42 x 30 x 16	WCD12C-107B4A	\$17,346.00
460	75	106	100	142	42 x 30 x 16	WCD12C-142B4A	\$19,981.00
460	100	136	125	169	48 x 30 x 16	WCD12C-169B4A	\$21,841.00
460	125	169	150	223	48 x 30 x 16	WCD12C-223B4A	\$26,209.00
460	150	195	200	264	60 x 36 x 20	WCD12C-264B4A	\$27,535.00
460	200	255	250	325	60 x 36 x 20	WCD12C-325B4A	\$31,473.00

WCD12C Options		
Option Code	Option Description	List Price
H	On-Off-Auto Selector Switch	\$294.00
I	Speed Potentiometer	\$534.00
J	Start/Stop Pushbuttons	\$560.00
K	Hand-Off-Auto Selector Switch	\$294.00
L	Surge Suppression	\$960.00
M7	SID7 Operator Interface	\$5,867.00
N	Panel Space Heater	\$747.00
O	Green Run Pilot Light	\$267.00
P	Amber Fault Pilot Light and Reset Pushbutton	\$614.00
Q	White Drive Ready Pilot Light	\$267.00
R1	Hinged Lockable HMI clear control door cover	\$457.00
U	1.3A, 24VDC Power Supply for Loop Power	\$406.00

Additional Product Notes

Option format: WCD12C-012B-2A-HI

Consult Factory for additional options pricing.

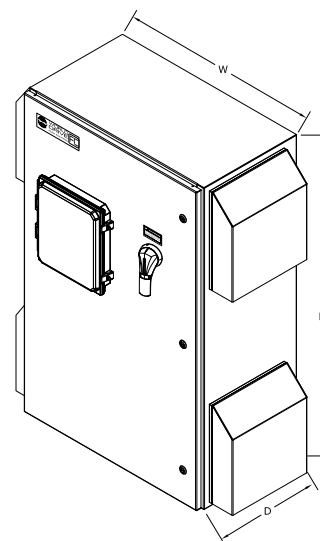
For ratings higher than shown in the table above - consult factory.

WCD Series - Configurable NEMA 4 Enclosed Panels for WDFC

WCD Worldwide Configured Drive Systems are UL compliant, assembled, tested and readied for operation prior to shipment, with base packages ready for quick delivery.

Product Specifications

- » Base panel includes VFD keypad installed behind a NEMA 4 clear control door cover
- » 3HP through 250HP with Worldwide Electric WDFC Flex Control VFD
- » 60 Second Overload ratings: 120% Normal Duty, 150% Heavy Duty
- » UL489 Main Circuit Breaker, with lockable disconnect mechanism
- » NEMA 4 Enclosure, positive pressure filtered forced air cooled with dual control thermostat, with NEMA 3R/4 Rain Hoods with direct spray barrier ensuring a proper NEMA rating seal to the enclosure, galvanized back panel
- » Control transformer with CB protection
- » Options available



Volts	Constant Torque		Variable Torque		Enclosure H x W x D (in)	Model Number	List Price
	Heavy Duty		Normal Duty				
	HP	Amps	HP	Amps			
230	2	8	3	12	36 x 24 x 12	WCD4C-012B2A	\$9,469.00
230	3	11	5	16	36 x 24 x 12	WCD4C-016B2A	\$8,515.00
230	5	17	7.5	22	36 x 24 x 12	WCD4C-022B2A	\$10,581.00
230	7.5	24	10	30	36 x 24 x 12	WCD4C-030B2A	\$10,815.00
230	10	32	15	42	36 x 24 x 12	WCD4C-042B2A	\$11,333.00
230	15	46	20	56	36 x 24 x 12	WCD4C-056B2A	\$12,370.00
230	20	60	25	69	36 x 24 x 12	WCD4C-069B2A	\$13,350.00
460	2	4	3	6	36 x 24 x 12	WCD4C-006B4A	\$8,164.00
460	3	5.5	5	8	36 x 24 x 12	WCD4C-008B4A	\$8,207.00
460	5	8	7.5	12	36 x 24 x 12	WCD4C-012B4A	\$8,396.00
460	7.5	12	10	16	36 x 24 x 12	WCD4C-016B4A	\$10,242.00
460	10	15	15	24	36 x 24 x 12	WCD4C-024B4A	\$10,671.00
460	15	22	20	30	36 x 24 x 12	WCD4C-030B4A	\$11,148.00
460	20	28	25	38	36 x 24 x 12	WCD4C-038B4A	\$12,608.00
460	25	35	30	45	36 x 24 x 12	WCD4C-045B4A	\$13,246.00
460	30	41	40	61	36 x 24 x 12	WCD4C-061B4A	\$14,276.00
460	40	55	50	75	48 x 30 x 16	WCD4C-075B4A	\$16,752.00
460	50	67	60	91	48 x 30 x 16	WCD4C-091B4A	\$17,801.00
460	60	81	75	107	48 x 30 x 16	WCD4C-107B4A	\$19,513.00
460	75	106	100	142	48 x 30 x 16	WCD4C-142B4A	\$22,147.00
460	100	136	125	169	48 x 30 x 16	WCD4C-169B4A	\$24,007.00

WCD4C Options		
Option Code	Option Description	List Price
H	On-Off-Auto Selector Switch	\$294.00
I	Speed Potentiometer	\$534.00
J	Start/Stop Pushbuttons	\$560.00
K	Hand-Off-Auto Selector Switch	\$294.00
L	Surge Suppression	\$960.00
M7	SID7 Operator Interface	\$5,867.00
N	Panel Space Heater	\$747.00
O	Green Run Pilot Light	\$267.00
P	Amber Fault Pilot Light and Reset Pushbutton	\$614.00
Q	White Drive Ready Pilot Light	\$267.00
U	1.3A, 24VDC Power Supply for Loop Power	\$406.00

Additional Product Notes

Option format: WCD4C-012B-2A-HI

Consult Factory for additional options pricing.

For ratings higher than shown in the table above - consult factory.

WCD Series - Configurable Enclosed Panel Options for WorldDrive WDFC

The WCD Series of Enclosed Drives offer the broadest range of size and configurations in the industry. Simple optional adder codes allow the user to customize as required for the most demanding of applications.

Options	Option Adder Codes / List Prices (Add codes at end of base model number in alpha order)					
	5% Line Reactor Upgrade	IEEE Harmonic Filter Upgrade	2 Contactor Bypass	3 Contactor Bypass	Output Reactor	DV / DT Filter
	B ⁽¹⁾	C ⁽¹⁾	D ⁽¹⁾	E ⁽¹⁾	F ⁽¹⁾	G ⁽¹⁾
WCD##C-008B4A	\$119.00	\$4,588.00	\$1,541.00	\$1,744.00	\$891.00	\$1,585.00
WCD##C-012B4A	\$119.00	\$4,588.00	\$1,542.00	\$1,745.00	\$891.00	\$1,635.00
WCD##C-016B4A	\$148.00	\$4,728.00	\$1,911.00	\$2,125.00	\$991.00	\$1,650.00
WCD##C-024B4A	\$159.00	\$4,848.00	\$2,022.00	\$2,301.00	\$1,004.00	\$1,965.00
WCD##C-030B4A	\$164.00	\$5,913.00	\$3,006.00	\$3,339.00	\$1,129.00	\$2,205.00
WCD##C-038B4A	\$234.00	\$6,538.00	\$3,248.00	\$3,602.00	\$1,247.00	\$2,280.00
WCD##C-045B4A	\$234.00	\$7,552.00	\$3,600.00	\$4,071.00	\$1,385.00	\$2,380.00
WCD##C-061B4A	\$264.00	\$9,314.00	\$4,613.00	\$5,135.00	\$1,417.00	\$2,440.00
WCD##C-075B4A	\$398.00	\$9,761.00	\$5,077.00	\$5,758.00	\$1,794.00	\$3,310.00
WCD##C-091B4A	\$421.00	\$10,559.00	\$5,221.00	\$5,962.00	\$1,912.00	\$3,865.00
WCD##C-107B4A	\$421.00	\$11,882.00	\$5,946.00	\$6,915.00	\$2,130.00	\$3,920.00
WCD##C-142B4A	\$461.00	\$14,270.00	\$6,293.00	\$7,558.00	\$2,468.00	\$4,565.00
WCD##C-169B4A	\$472.00	\$15,724.00	\$7,086.00	\$8,766.00	\$2,724.00	\$4,990.00
WCD##C-223B4A	\$524.00	\$23,380.00	\$7,758.00	\$9,912.00	\$3,127.00	\$5,370.00
WCD##C-264B4A	\$710.00	\$24,775.00	\$8,429.00	\$10,887.00	\$4,009.00	\$5,610.00
WCD##C-325B4A	\$741.00	\$27,062.00	\$14,451.00	\$17,703.00	\$4,428.00	\$6,145.00
WCD3RC-370B4A	\$786.00	\$33,942.00	\$16,141.00	\$20,081.00	\$4,505.00	\$6,935.00
WCD3RC-481B4A	\$794.00	\$46,632.00	\$14,038.00	\$19,465.00	\$6,194.00	\$8,405.00
WCD3RC-613B4A	\$1,345.00	\$56,034.00	\$22,514.00	\$32,460.00	\$8,745.00	\$11,732.00
WCD3RC-683B4A	\$1,458.00	\$56,034.00	\$22,514.00	\$32,460.00	\$10,090.00	\$14,205.00

Additional Product Notes

For 008B4A through 325B4A, ## is the enclosure style (3R, 4, 12).

For 770B4A & 960B4A, consult factory.

- (1) Options B, C, D, E, F, G may result in enclosure dimensional changes

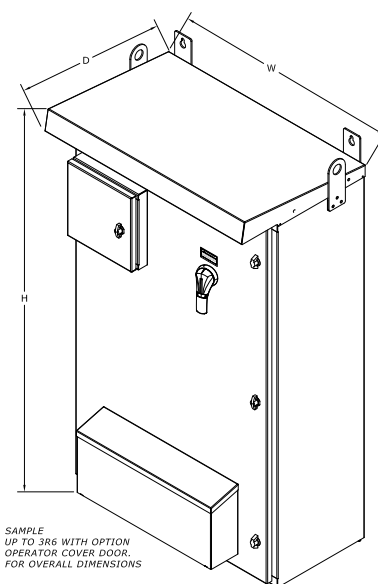
- (1) Price includes changes

WWEPPB Series Positive Displacement Pump Panel NEMA 3R Enclosed Drive

WorldWide Electric's Positive Displacement Pump Drive packages are designed and built to handle the incredibly harsh environments found in the petroleum industry, with a NEMA 3R enclosure, galvanized steel rear panel, sloped roof, and full positive pressure filtered ventilation. The WorldWide Positive Displacement Pump Drive package is easy to install with heavy duty mounting ears and lifting straps.

Product Specifications

- » 3HP through 550HP (Hyundai N700E VFD)
- » Three-phase or single-phase input
- » CT and VT ratings
- » Heavy duty NEMA 3R Enclosure
- » Hooded (sloped roof), ventilated, filtered
- » Heavy duty mounting ears and lifting straps
- » Bottom-to-top ventilation (heat-shedding design), Forced-air filtered fans (positive pressure design), Galvanized back panel
- » Lockable main door and control cover door
- » Padlock disconnect on main CB
- » 3% line reactors
- » Control transformer with CB protection
- » Dual control thermostat
- » Door heat strip for keypad
- » Full panel surge protection
- » SID1 (Smart Interface Device) with extended functions
- » Start / Stop / Reset pushbuttons
- » Run / Fault pilot lights
- » Hand-Off-Auto selector
- » Emergency stop
- » Murphy switch input ready (7)
- » NO / NC selectable inputs
- » Configurable analog and discrete I/O
- » Pre-charge pump timer



Voltage	Constant Torque		Variable Torque		Enclosure	Model	List Price
	Heavy Duty		Normal Duty				
	HP	Amps	HP	Amps	H x W x D (in)		
480	3	7.2	3	7.2	32 x 25 x 17	WWEPPB-DRV3R-003-4	\$20,464.60
480	5	9.2	5	9.2	32 x 25 x 17	WWEPPB-DRV3R-005-4	\$20,962.39
480	7.5	12	10	15	32 x 25 x 17	WWEPPB-DRV3R-007-4	\$21,736.73
480	10	16	15	22	32 x 25 x 17	WWEPPB-DRV3R-010-4	\$22,068.58
480	15	23	20	29	32 x 25 x 17	WWEPPB-DRV3R-015-4	\$22,953.54
480	20	32	25	37	40 x 25 x 19	WWEPPB-DRV3R-020-4	\$23,415.93
480	25	38	30	43	40 x 25 x 19	WWEPPB-DRV3R-025-4	\$23,888.27
480	30	45	40	57	40 x 25 x 19	WWEPPB-DRV3R-030-4	\$24,304.20
480	40	58	50	70	50 x 31 x 21	WWEPPB-DRV3R-040-4	\$27,475.66
480	50	75	60	85	50 x 31 x 21	WWEPPB-DRV3R-050-4	\$29,179.20
480	60	90	75	105	50 x 31 x 21	WWEPPB-DRV3R-060-4	\$31,995.58
480	75	110	100	135	50 x 31 x 21	WWEPPB-DRV3R-075-4	\$35,318.58
480	100	149	125	160	56 x 37 x 23	WWEPPB-DRV3R-100-4	\$39,644.91
480	125	176	150	195	56 x 37 x 23	WWEPPB-DRV3R-125-4	\$43,149.34
480	150	217	200	230	63 x 37 x 25	WWEPPB-DRV3R-150-4	\$46,316.37
480	200	260	250	285	63 x 37 x 25	WWEPPB-DRV3R-200-4	\$56,810.84
480	250	300	300	370	68 x 38 x 25	WWEPPB-DRV3R-250-4	\$74,714.60
480	300	415	350	450	68 x 38 x 25	WWEPPB-DRV3R-300-4	\$77,804.20
480	350	475	400	500	88 x 65 x 31	WWEPPB-DRV3R-350-4	\$102,599.58
480	400	525	450	600	88 x 65 x 31	WWEPPB-DRV3R-400-4	\$122,339.60
480	500	656	550	680	88 x 65 x 31	WWEPPB-DRV3R-500-4	\$138,932.52

Multifunction Keypads: SID1, SID7

SID1 and SID7 multifunctional keypads are ready to run, giving you direct control over any parameter on any drive. Multifunctional keypads allow for simple start up, settings are quickly applied on a single screen, and real time data is available in easily understood terminology.

The SID1 provides a simple design with a rugged keypad providing access to all the information you need, displayed on a crystal clear monochrome backlit LCD screen.

The SID7 displays controls and information on a 7" TFT color touchscreen. Pump status, POC conditions, and trip/alarm items are always visible on the SID7, no matter which view a user is currently operating.

Product Specifications

- » Data Logging Screen:
 - › Number of strokes
 - › Number of faults
 - › Number of pump-offs
- » Drive Monitoring Screens:
 - › Torque (%)
 - › Motor voltage
 - › Motor current
 - › DC bus voltage
 - › PJ parameters
- » Drive Alarm History Time of Event:
 - › Reference
 - › Current
 - › DC bus voltage
 - › Motor voltage
 - › Frequency



SID1: HE-XE102-86



SID7: HE-XW1E2-86

WorldWide Electric Multifunction Keypads

SID Device	Model Number	List Price
SID1	HE-XE102-86	\$1,630.53
SID7	HE-XW1E2-86	\$5,525.44

Line Reactors

Power quality has degraded over time due to the increased use of non-linear loads. Drives and other sensitive devices are vulnerable to electrical distortion on the line. The addition of a 3% KDR Reactor will reduce harmonic content, which reduces the total RMS current, thereby improving the total power factor.



Control Transformers

Industrial control power transformers step voltages down to lower levels for use in machine tool and industrial control circuits. They also isolate control circuits from all power and lighting circuits reducing noise interference. Industrial and construction markets demand rugged, reliable design for manufacturing plants and commercial applications.



HP	Open		NEMA 1	
	Model Number	List Price	Model Number	List Price
230 Volt, Three-Phase				
0.5	KDRA25L	\$221.24	KDRA25LC1	\$483.41
1	KDRA26L	\$232.30	KDRA26LC1	\$494.47
2	KDRA27L	\$235.62	KDRA27LC1	\$498.89
3	KDRA28L	\$275.44	KDRA28LC1	\$536.50
5	KDRB22L	\$365.04	KDRB22LC1	\$628.32
7.5	KDRB23L	\$379.42	KDRB23LC2	\$695.80
10	KDRD25L	\$429.20	KDRD25LC2	\$744.47
15	KDRD24L	\$529.87	KDRD24LC2	\$846.24
20	KDRD26L	\$563.05	KDRD26LC2	\$881.64
25	KDRC22L	\$754.42	KDRC22LC2	\$1,071.90
30	KDRF24L	\$768.81	KDRF24LC4	\$1,516.59
40	KDRF25L	\$1,139.38	KDRF25LC4	\$1,890.49
50	KDRF26L	\$1,338.50	KDRF26LC4	\$2,091.81
60	KDRH22L	\$1,561.95	KDRH22LC4	\$2,320.80
75	KDRI23L	\$1,592.92	KDRI23LC4	\$2,347.35
100	KDRI24L	\$1,780.97	KDRI24LC4	\$2,381.64

460 Volt, Three-Phase				
0.5	KDRA7L	\$213.50	KDRA7LC1	\$472.35
1	KDRA8L	\$217.92	KDRA8LC1	\$476.77
2	KDRA1L	\$232.30	KDRA1LC1	\$488.94
3	KDRA2L	\$252.21	KDRA2LC1	\$509.96
5	KDRA3L	\$265.49	KDRA3LC1	\$522.12
7.5	KDRA4L	\$296.46	KDRA4LC1	\$553.10
10	KDRA5L	\$372.79	KDRA5LC1	\$629.42
15	KDRB2L	\$439.16	KDRB2LC1	\$693.58
20	KDRB1L	\$484.51	KDRB1LC1	\$789.82
25	KDRD1L	\$509.96	KDRD1LC2	\$818.58
30	KDRD2L	\$646.02	KDRD2LC2	\$952.43
40	KDRC1L	\$712.39	KDRC1LC2	\$1,021.02
50	KDRF2L	\$832.96	KDRF2LC3	\$1,261.06
60	KDRF4L	\$859.51	KDRF4LC3	\$1,269.91
75	KDRF3L	\$1,143.81	KDRF3LC4	\$1,873.89
100	KDRH3L	\$1,323.01	KDRH3LC4	\$2,184.73
125	KDRH2L	\$1,633.85	KDRH2LC4	\$2,367.26
150	KDRH1L	\$1,918.14	KDRH1LC4	\$2,814.16
200	KDRG3L	\$2,435.84	KDRG3LC4	\$3,169.25
250	KDRG1L	\$2,682.52	KDRG1LC4	\$3,413.72
300	KDRG2L	\$2,742.26	KDRG2LC4	\$3,475.66
400	KDRJ1L	\$3,506.64	KDRJ1LC5	\$4,482.30
500	KDRL2L	\$6,173.67	KDRL2LC5	\$7,151.55

VA	Model Number	List Price
50	MT0050A	\$135.00
100	MT0100A	\$182.00
150	MT0150A	\$191.00
250	MT0250A	\$278.00
500	MT0500A	\$402.00
750	MT0750A	\$553.00
1000	MT1000A	\$674.00
1500	MT1500A	\$951.00

Surge Suppressors / Protectors

Prevents damage to electronic equipment from transient voltage spikes.



Voltage	Model Number	List Price
230	DS43S-230	\$431.42
460	DS43S-480	\$431.42

Braking Resistors / Braking Modules for use with Hyundai N700E Drive Product

VFD Model Number	Dynamic Braking Resistors - Heavy Duty Cycle					Braking Modules		
	Model Number	Ohms	Watts	Quantity Required	List Price (Each)	Model Number	Quantity Required	List Price (Each)
230 Volt, Single-Phase								
N700E-004SF	RB-00P3-50	50	0.3	1	\$57.52	Built-In	—	—
N700E-007SF	RB-00P3-50	50	0.3	1	\$57.52	Built-In	—	—
N700E-015SF	RB-00P3-50	50	0.3	1	\$57.52	Built-In	—	—
N700E-022SF	RB-00P6-35	35	0.6	1	\$138.27	Built-In	—	—
230 Volt, Three-Phase								
N700E-004LF	RB-00P3-50	50	0.3	1	\$57.52	Built-In	—	—
N700E-007LF	RB-00P3-50	50	0.3	1	\$57.52	Built-In	—	—
N700E-015LF	RB-00P3-50	50	0.3	1	\$57.52	Built-In	—	—
N700E-022LF	RB-00P6-35	35	0.6	1	\$138.27	Built-In	—	—
N700E-037LF	RB-01P2-35	35	1.2	1	\$178.10	Built-In	—	—
N700E-055LF	RB-01P2-17	17	1.2	1	\$148.68	Built-In	—	—
N700E-075LF	RB-01P2-17	17	1.2	1	\$148.68	Built-In	—	—
N700E-110LF	RB-01P2-17	17	1.2	1	\$148.68	Built-In	—	—
N700E-150LF	RB-04P5-8.7	8.7	4.5	1	\$1,046.73	Built-In	—	—
N700E-185LF	RB-05P6-6	6	5.6	1	\$1,266.78	Built-In	—	—
N700E-220LF	RB-06P6-6	6	5.6	1	\$1,338.14	Built-In	—	—
N700E-300LF	RB-09P0-HD-3.5	3.5	9	1	\$2,071.90	BRD-K3-370L	1	\$1,742.26
N700E-370LF	RB-11P2-HD-3.5	3.5	11.2	1	\$2,384.96	BRD-K3-370L	1	\$1,742.26
N700E-450LF	RB-13P5-HD-2.4	2.4	13.5	1	\$2,673.67	BRD-K3-550L	1	\$1,963.50
N700E-550LF	RB-16P5-HD-2.4	2.4	16.5	1	\$3,245.58	BRD-K3-550L	1	\$1,963.50
N700E-750LF	Consult Factory	—	—	—	—	—	—	—
460 Volt, Three-Phase								
N700E-004HF	RB-00P6-100	100	0.6	1	\$178.10	Built-In	—	—
N700E-007HF	RB-00P6-100	100	0.6	1	\$178.10	Built-In	—	—
N700E-015HF	RB-00P6-100	100	0.6	1	\$178.10	Built-In	—	—
N700E-022HF	RB-00P6-100	100	0.6	1	\$178.10	Built-In	—	—
N700E-037HF	RB-00P6-100	100	0.6	1	\$178.10	Built-In	—	—
N700E-055HF	RB-01P8-HD-70	70	1.8	1	\$279.87	Built-In	—	—
N700E-075HF	RB-02P4-HD-50	50	2.4	1	\$636.06	Built-In	—	—
N700E-110HF	RB-03P3-HD-50	50	3.3	1	\$636.06	Built-In	—	—
N700E-150HF	RB-04P5-HD-30	30	4.5	1	\$1,122.79	Built-In	—	—
N700E-185HF	RB-05P6-HD-20	20	5.6	1	\$1,355.09	Built-In	—	—
N700E-220HF	RB-06P6-HD-20	20	6.6	1	\$1,434.73	Built-In	—	—
N700E-300HF	RB-09P0-HD-12	12	9	1	\$2,148.23	BRD-VZ3-370H	1	\$1,742.26
N700E-370HF	RB-11P2-HD-12	12	11.2	1	\$2,473.45	BRD-VZ3-370H	1	\$1,742.26
N700E-450HF	RB-13P5-HD-8	8	13.5	1	\$2,773.23	BRD-VZ3-550H	1	\$1,963.50
N700E-550HF	RB-16P5-HD-6	6	16.5	1	\$3,368.36	BRD-VZ3-550H	1	\$1,963.50
N700E-750HF	RB-22P5-HD-6	6	22.5	1	\$4,120.58	BRD-VZ3-750H	1	\$2,256.64
N700E-900HF	RB-22P5-HD-6	6	22.5	2	\$4,120.58	BRD-VZ3-550H	2	\$1,963.50
N700E-1100HF	RB-22P5-HD-6	6	22.5	2	\$4,120.58	BRD-VZ3-750H	2	\$2,256.64
N700E-1320HF	RB-22P5-HD-6	6	22.5	2	\$4,120.58	BRD-VZ3-750H	2	\$2,256.64
N700E-1600HF	RB-45P0-3	3	45	2	\$8,351.77	FBU100-160-4	1	\$8,490.04
N700E-2200HF	RB-45P0-3	3	45	2	\$8,351.77	FBU100-220-4	1	\$11,355.09
N700E-2800HF	RB-45P0-3	3	45	4	\$8,351.77	FBU100-160-4	2	\$8,490.04
N700E-3500HF	Consult Factory	—	—	—	—	—	—	—

Additional Product Notes

Shown above are values for typical heavy duty applications.

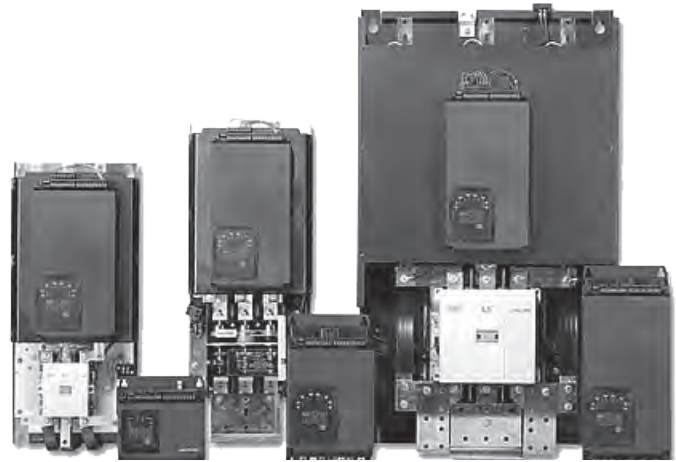
For applications with known duty cycle and braking torque requirements, please consult factory for selection assistance.

WWE2-BP Chassis Soft Starters

With multiple ramp profiles, the WWE2-BP series offers accel, decel and advanced motor protection that make this soft starter adaptable to a wide variety of AC motor applications doing away for the need for add-on modules or costly auxiliary devices.

Product Specifications

- » 5HP through 700HP
- » Overload rated 350% for 30 seconds
- » Line start full voltage bypass
- » Soft start - soft stop
- » Completely programmable
- » 2 or 3 wire control
- » Dual ramps
- » 120 V control
- » Jog function



HP			Max FLA	Dimensions (inches) H x W x D	Model Number	List Price
200 V	230 V	460 V				
5	5	10	18	8.9 x 8.0 x 6.7	WWE2-18-BP	\$4,223.45
7.5	7.5	20	28	8.9 x 8.0 x 6.7	WWE2-28-BP	\$4,223.45
10	10	25	39	8.9 x 8.0 x 6.7	WWE2-39-BP	\$4,418.14
10	15	30	48	8.9 x 8.0 x 6.7	WWE2-48-BP	\$4,418.14
15	20	40	62	14.0 x 8.0 x 6.7	WWE2-62-BP	\$4,698.01
20	25	50	78	14.0 x 8.0 x 6.7	WWE2-78-BP	\$4,894.91
25	30	60	92	14.0 x 8.0 x 6.7	WWE2-92-BP	\$5,804.20
30	40	75	112	14.0 x 8.0 x 6.7	WWE2-112-BP	\$6,331.86
40	50	100	150	19.0 x 8.0 x 6.7	WWE2-150-BP	\$7,597.35
50	60	125	160	19.0 x 8.0 x 6.7	WWE2-160-BP	\$7,978.98
60	75	150	210	28.1 x 12.5 x 9.1	WWE2-210-BP	\$9,472.35
75	100	200	275	28.1 x 12.5 x 9.1	WWE2-275-BP	\$10,344.03
125	125	300	361	28.1 x 12.5 x 9.1	WWE2-361-BP	\$11,532.08
150	150	350	450	28.1 x 12.5 x 9.1	WWE2-450-BP	\$12,936.95
150	200	450	550	29.5 x 12.5 x 9.1	WWE2-550-BP	\$18,881.64
200	250	500	600	29.5 x 12.5 x 9.1	WWE2-600-BP	\$20,344.03
300	350	700	900	44.3 x 25.5 x 11.9	WWE2-900-BP	\$30,515.49

WSiQ Series Chassis Soft Starters

WorldWide Electric's WORLDSTART iQ Softstarter helps to enhance productivity of your operation by reducing wear and tear on your power transmission equipment. The WORLDSTART iQ doesn't just start and stop your motor with precision and efficiency; it also helps you minimize energy costs and improve operational effectiveness.

Product Specifications

- » True three-phase starter
- » Constant current and current ramp start
- » Advanced adaptive control starting / stopping
- » Kickstart starting
- » Coast-to-stop and ramp-to-stop
- » DC brake
- » Soft brake
- » Jog (forward and reverse)
- » Inside delta control (6-wire)
- » Soft trip
- » 120/230VAC control power
- » Internal bypass



WORLDSTART iQ Soft Starters			Standard Duty 350%, 30 seconds, 4 starts/hour				Heavy Duty 450%, 30 seconds, 4 starts/hour			
Model Number	List Price	Dimensions H x W x D (in)	HP				HP			
			Amps	208V	230V	460V	Amps	208V	230V	460V
WSIQ-0024BP	\$1,858.41	13.2 x 6.0 x 9.1	17	5	5	10	14	3	3	10
WSIQ-0042BP	\$1,902.65	13.2 x 6.0 x 9.1	28	7.5	10	20	22	7.5	7.5	15
WSIQ-0052BP	\$2,035.40	13.2 x 6.0 x 9.1	35	10	10	25	28	10	10	20
WSIQ-0064BP	\$2,555.31	13.2 x 6.0 x 9.1	52	15	15	30	40	10	10	25
WSIQ-0069BP	\$2,732.30	13.2 x 6.0 x 9.1	59	15	20	40	46	15	15	30
WSIQ-0105BP	\$2,920.35	13.2 x 6.0 x 9.1	77	25	25	50	52	15	15	40
WSIQ-0115BP	\$3,108.41	13.2 x 6.0 x 9.1	81	25	25	60	65	20	20	50
WSIQ-0135BP	\$3,893.81	13.2 x 6.0 x 9.1	99	30	30	75	77	25	25	60
WSIQ-0184BP	\$4,712.39	19.5 x 8.5 x 9.6	124	40	40	75	96	30	30	60
WSIQ-0200BP	\$5,154.87	19.5 x 8.5 x 9.6	131	40	40	100	104	30	40	75
WSIQ-0229BP	\$5,741.15	19.5 x 8.5 x 9.6	156	50	50	125	124	40	40	100
WSIQ-0250BP	\$6,482.30	19.5 x 8.5 x 9.6	195	60	60	150	156	50	60	125
WSIQ-0352BP	\$7,522.12	20.6 x 8.5 x 9.6	240	75	75	150	180	60	60	150
WSIQ-0397BP	\$7,665.93	20.6 x 8.5 x 9.6	261	75	75	200	203	60	75	150
WSIQ-0410BP	\$9,026.55	20.6 x 8.5 x 9.6	377	125	125	300	302	100	100	250
WSIQ-0550BP	\$11,283.19	20.6 x 8.5 x 9.6	414	150	150	350	321	100	125	250
WSIQ-0580BP	\$12,676.99	20.6 x 8.5 x 9.6	477	150	150	400	361	125	150	300

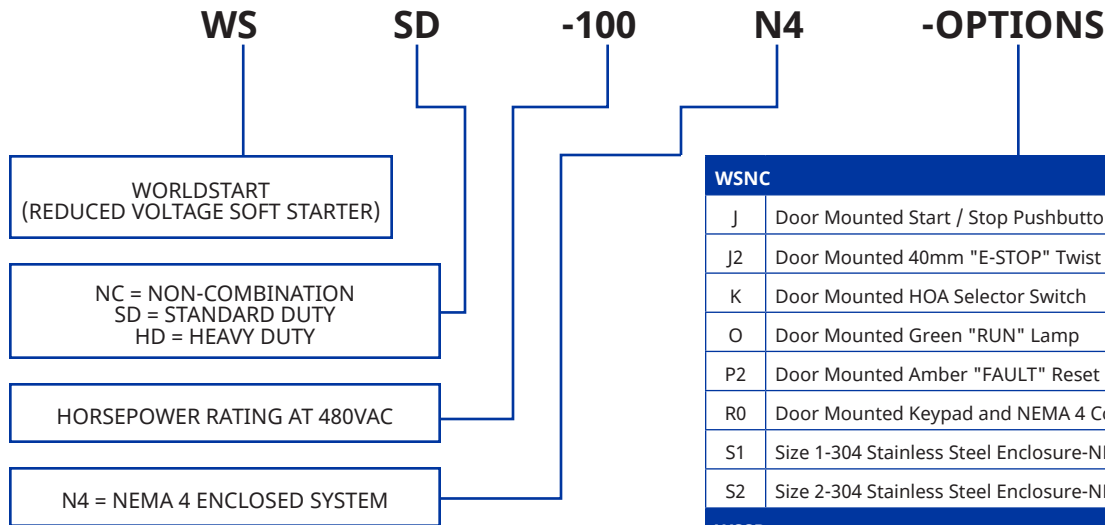
WSiQ Accessory

Model Number	Description	List Price
WSIQ-KPKIT	Kit including WSiQ Remote Keypad and Keypad Option Card for WSiQ unit	\$600.00

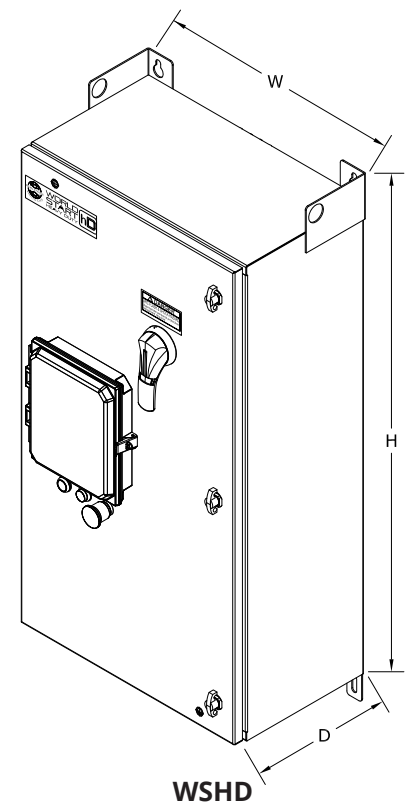
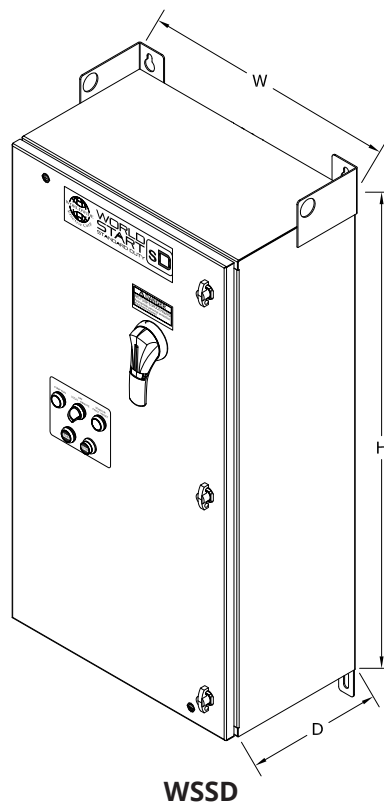
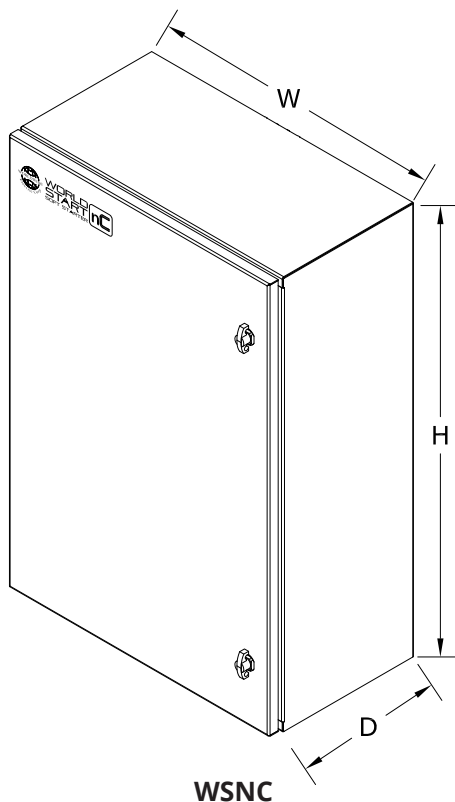
Additional Product Notes

Not recommended for use on corner grounded delta systems.

WorldWide Configured Soft Starter Selection Guide



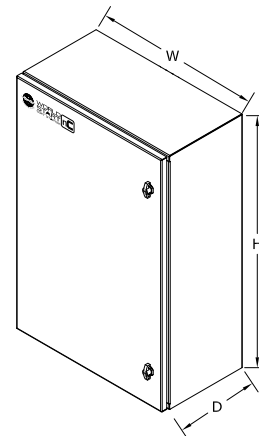
WSNC	
J	Door Mounted Start / Stop Pushbuttons
J2	Door Mounted 40mm "E-STOP" Twist Pushbutton
K	Door Mounted HOA Selector Switch
O	Door Mounted Green "RUN" Lamp
P2	Door Mounted Amber "FAULT" Reset Pushbutton Lamp
R0	Door Mounted Keypad and NEMA 4 Cover
S1	Size 1-304 Stainless Steel Enclosure-NEMA 4X (24"x24"x10")
S2	Size 2-304 Stainless Steel Enclosure-NEMA 4X (36"x30"x12")
WSSD	
R0	Door Mounted Keypad and NEMA 4 Door
S3	Size 1-304 Stainless Steel Enclosure-NEMA 4X (34"x17"x12")
S4	Size 2-304 Stainless Steel Enclosure-NEMA 4X (42"x22"x12")
S5	Size 3-304 Stainless Steel Enclosure-NEMA 4X (48"x24"x12")
WSHD	
S6	Size 1-304 Stainless Steel Enclosure-NEMA 4X (34"x17"x12")
S7	Size 2-304 Stainless Steel Enclosure-NEMA 4X (42"x22"x12")
S8	Size 3-304 Stainless Steel Enclosure-NEMA 4X (50"x32"x14")



WSNC Series Non-Combination Soft Starters

WorldWide Electric's WORLDSTART Non-Combination (nC) Softstarter Package is for the customer that has an existing service disconnect in place. Easy installation with 3-phase in and 3-phase out, self-powered and prewired 120 volt control with additional bus space for customer use. The WORLDSTART Non-Combination (nC) Softstarter Package comes complete with power grounding bar and lugs, product manual and drawing.

**WORLD
START** nC
NON-COMBINATION



Product Specifications

- » True 3-Phase Starter with Internal Bypass
- » Rated at 350% FLA for 30 Seconds
- » White Finish Inside and Outside
- » UL489 Protected CPT Line and Load
- » 230/460 V CPT for 120 VAC Control
- » 120 V Bus & Large Insulated Grounding Bar
- » Prewired per UL508A
- » NEMA 4 Rated

Model Number	List Price	HP ⁽¹⁾		Dimensions (Inches)		
		460V	230V	H	W	D
WSNC-020N4	\$4,773.23	20	10	24	24	10
WSNC-030N4	\$5,730.09	30	15	24	24	10
WSNC-040N4	\$5,818.58	40	20	24	24	10
WSNC-050N4	\$5,918.14	50	25	24	24	10
WSNC-060N4	\$7,240.04	60	30	24	24	10
WSNC-075N4	\$7,898.23	75	40	36	24	12
WSNC-100N4	\$8,794.25	100	50	36	24	12
WSNC-125N4	\$10,221.24	125	60	36	24	12
WSNC-150N4	\$10,486.73	150	75	36	24	12
WSNC-200N4	\$10,816.37	200	100	36	24	12
WSNC-250N4	\$11,592.92	250	125	36	24	12
WSNC-300N4	\$12,394.91	300	150	36	24	12
WSNC-350N4	\$15,707.96	350	150	36	24	12
WSNC-400N4	\$17,163.72	400	200	36	24	12
WSNC-450N4	\$22,615.80	450	---	60	36	16
WSNC-500N4	\$24,010.80	500	---	60	36	16
WSNC-600N4	\$27,680.18	600	---	60	36	16

WSNC Options		
Option Code	Option Description	List Price
J	Door Mounted Start / Stop Pushbuttons	\$560.00
J2	Door Mounted 40mm "E-STOP" Twist Pushbutton	\$340.00
K	Door Mounted HOA Selector Switch	\$294.00
O	Door Mounted Green "RUN" Lamp	\$294.00
P2	Door Mounted Amber "FAULT" Reset Pushbutton Lamp	\$350.00
R0	Door Mounted Keypad and NEMA 4 Cover	\$1,140.00
S1	Size 1-304 Stainless Steel Enclosure-NEMA 4X (24"x24"x10")	Consult Factory
S2	Size 2-304 Stainless Steel Enclosure-NEMA 4X (36"x30"x12")	Consult Factory

Additional Product Notes

(1) For 208V ratings, consult factory.

Units 450HP and Larger are Ansi 61 Gray.

For Heavy Duty 450%, 30 second ratings, consult factory.

Section 2: Soft Starters

Enclosed Combination Soft Starter Packages

DISCOUNT CODE

MC1



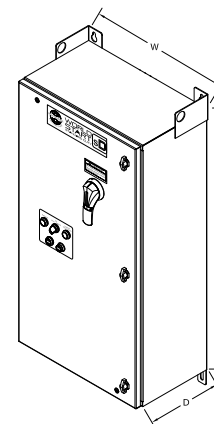
WSSD Series Standard Duty Combination Soft Starters

WorldWide Electric's WORLDSTART Standard Duty (sD) Combination Softstarter Package comes complete with circuit breaker disconnect, 120 volt control and basic door operation, all in one package for soft start applications. Finished starter duty rated for 350% starting, with integral bypass - 3-wire in/out.

**WORLD
START** **sD**
STANDARD DUTY

Product Specifications

- » True 3-Phase Starter
- » NEMA 4 Enclosure
- » White Finish Inside and Outside
- » Rated at 350% FLA for 30 Seconds
- » Same Technical Specifications as the WORLDSTART iQ Softstarter
- » 2 and 3-Wire Start Design Standard
- » Door Mounted Operators:
 - › Motor Run Lamp
 - › Off / Local / Remote Switch
 - › Fault Lamp and Reset Pushbutton
 - › Start Pushbutton
 - › Stop Pushbutton
- » Run Rated Bypass
- » Programmable Timer and Schedulers



Model Number	List Price	HP ⁽¹⁾		Dimensions (Inches)		
		460V	230V	H	W	D
WSSD-020N4	\$7,621.68	20	10	34	17	12
WSSD-025N4	\$7,898.23	25	10	34	17	12
WSSD-030N4	\$8,125.00	30	15	34	17	12
WSSD-040N4	\$8,257.74	40	20	34	17	12
WSSD-050N4	\$8,384.96	50	25	34	17	12
WSSD-060N4	\$9,758.85	60	30	34	17	12
WSSD-075N4	\$10,669.25	75	40	42	22	12
WSSD-100N4	\$11,808.63	100	50	42	22	12
WSSD-125N4	\$13,241.15	125	60	42	22	12
WSSD-150N4	\$15,132.74	150	75	42	22	12
WSSD-200N4	\$16,747.79	200	100	48	24	12
WSSD-250N4	\$18,456.86	250	125	48	24	12
WSSD-300N4	\$20,149.34	300	150	48	24	12

WSSD Options		
Option Code	Option Description	List Price
R0	Door Mounted Keypad and NEMA 4 Door	\$1,140.00
S3	Size 1-304 Stainless Steel Enclosure-NEMA 4X (34"x17"x12")	Consult Factory
S4	Size 2-304 Stainless Steel Enclosure-NEMA 4X (42"x22"x12")	Consult Factory
S5	Size 3-304 Stainless Steel Enclosure-NEMA 4X (48"x24"x12")	Consult Factory

Additional Product Notes

(1) For 208V ratings, consult factory.

For Heavy Duty 450%, 30 second ratings, consult factory.

Section 2: Soft Starters

Enclosed Combination Soft Starter Packages

DISCOUNT CODE

MC1



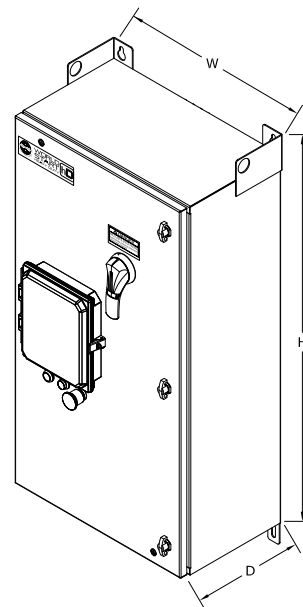
WSHD Series Heavy Duty Combination Soft Starters

WorldWide Electric's WORLDSTART Heavy Duty (hD) Engineered Softstarter Package is built for the toughest applications. Oversized capacity for your rock crusher, PD pump or any hard-starting piece of equipment.

**WORLD
START** **hD**
HEAVY DUTY

Product Specifications

- » True 3-Phase Starter
- » Rated at 450% FLA for 30 Seconds
- » 2 and 3-Wire Start Design Standard
- » NEMA 4 Enclosure
- » White Finish Inside and Outside
- » Same Technical Specifications as the WORLDSTART iQ Softstarter
- » Door Control:
 - › Complete Keypad for Display and Programming
 - › Start / Stop Pushbutton
 - › Motor Run Lamp
 - › E-Stop and Lamp
 - › Power On Lamp
 - › Fault Lamp and Reset Pushbutton
 - › External Interlock Lamp (2)
 - › Across-Line / RVSS Selector Switch (2)
 - › Local-Off-Remote Selector Switch
- » Emergency Bypass Starter With
- » Full Motor Overload Protection (2)



Model Number	List Price	HP ⁽¹⁾		Dimensions (Inches)		
		460V	230V	H	W	D
WSHD-020N4	\$8,453.54	20	10	34	17	12
WSHD-025N4	\$8,584.07	25	10	34	17	12
WSHD-030N4	\$8,672.57	30	15	34	17	12
WSHD-040N4	\$8,761.06	40	15	34	17	12
WSHD-050N4	\$8,976.77	50	20	34	17	12
WSHD-060N4	\$11,860.62	60	25	34	17	12
WSHD-075N4	\$12,035.40	75	40	42	22	12
WSHD-100N4	\$14,323.01	100	40	42	22	12
WSHD-125N4	\$15,304.20	125	60	42	22	12
WSHD-150N4	\$17,676.99	150	60	42	22	12
WSHD-200N4	\$19,867.26	200	---	50	32	14
WSHD-250N4	\$21,823.01	250	---	50	32	14
WSHD-300N4	\$23,984.51	300	---	50	32	14
WSHD-400N4 ⁽²⁾	\$35,448.00	400	---	72	40	18
WSHD-450N4 ⁽²⁾	\$39,153.00	450	---	72	40	18
WSHD-500N4 ⁽²⁾	\$41,592.00	500	---	72	40	18

WSHD Options		
Option Code	Option Description	List Price
S6	Size 1-304 Stainless Steel Enclosure-NEMA 4X (34"x17"x12")	Consult Factory
S7	Size 2-304 Stainless Steel Enclosure-NEMA 4X (42"x22"x12")	Consult Factory
S8	Size 3-304 Stainless Steel Enclosure-NEMA 4X (50"x32"x14")	Consult Factory

Additional Product Notes

(1) Consult Factory for 208V ratings.

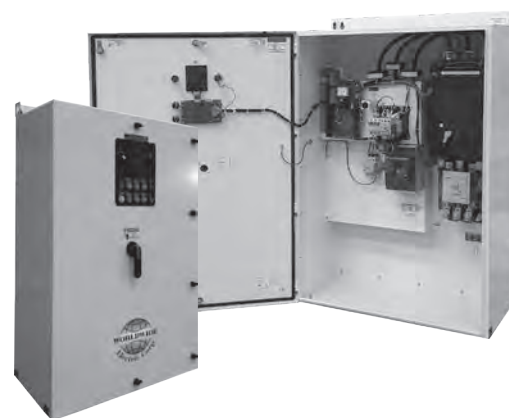
(2) On 400, 450 and 500 HP Ratings - No Emergency Bypass - ANSI 61 Gray Finish

WWE PD Series Positive Displacement Soft Starters - NEMA 4 Enclosure

WorldWide Electric's PD Softstart package is designed specifically for the demanding start-up, control and protection needed for Salt Water Disposal and Jet Pump applications. This package provides full skid control and protection of your motor and positive displacement piston pump.

Product Specifications

- » Designed for PD Pumping Applications
 - › 20 - 600 HP
 - › Fully rated bypass contactor
 - › Ready for Murphy Switch field inputs
 - › NO/NC selectable Murphy inputs
 - › Motor saver technology using SCR system overload
- » Designed for Harsh Environments
 - › NEMA 4 outdoor rated enclosure
 - › Designed for Safety and Protection
 - › Service entrance rated meeting NEC requirements
 - › Overated to 500% for 60 seconds
- » Full panel surge protection with main circuit breaker
- » Designed for Security
 - › Lockable main door
 - › Concealed hinges
 - › Padlock disconnect on main CB
 - › Keypad Designed for Easy Operation
 - › Start / Stop pushbutton
 - › Help
 - › Manual / Auto
- » Designed with multiple protection inputs and outputs
 - › External fault lights for high / low oil pressure levels, vibration trip and more.



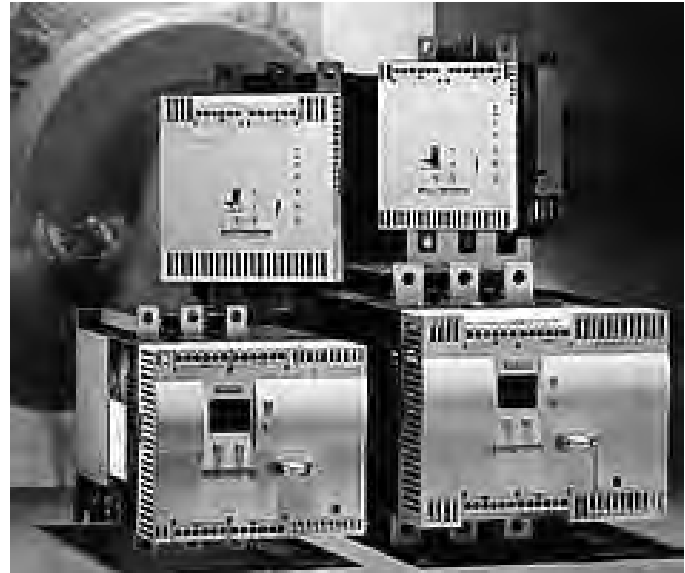
HP		Max FLA	Dimensions (inches) H x W x D	Model Number	List Price
230 V	460 V				
10	20	27	37 x 15 x 12	WWEPDASSRV12-20	\$11,605.09
—	25	40	37 x 15 x 12	WWEPDASSRV12-25	\$12,194.69
15	30	45	37 x 15 x 12	WWEPDASSRV12-30	\$12,463.50
20	40	55	37 x 15 x 12	WWEPDASSRV12-40	\$12,732.30
25	50	68	37 x 15 x 12	WWEPDASSRV12-50	\$13,000.00
30	60	96	37 x 15 x 12	WWEPDASSRV12-60	\$14,220.13
40	75	112	37 x 15 x 12	WWEPDASSRV12-75	\$17,243.36
50	100	130	48 x 33 x 16	WWEPDASSRV12-100	\$19,556.42
60	125	156	48 x 33 x 16	WWEPDASSRV12-125	\$20,669.25
75	150	210	48 x 33 x 16	WWEPDASSRV12-150	\$22,894.91
100	200	248	48 x 33 x 16	WWEPDASSRV12-200	\$24,792.04
125	250	320	48 x 33 x 16	WWEPDASSRV12-250	\$28,774.34
150	300	400	48 x 33 x 16	WWEPDASSRV12-300	\$33,474.56
200	400	480	48 x 33 x 16	WWEPDASSRV12-400	\$38,173.67
250	500	600	48 x 33 x 16	WWEPDASSRV12-500	\$51,340.71
300	600	800	87 x 31 x 24	WWEPDASSRV12-600	\$52,486.73

SIEMENS 3RW44 Series Chassis Soft Starters

The SIEMENS 3RW44 Series Soft Starter is the right soft starter for every application. The Siemens 3RW44 Series General Performance Soft Starter with intelligent functions offers a soft alternative for almost any application.

Product Specifications

- » 7.5HP through 500HP
- » Internal bypass contactor
- » Reduction of current peaks
- » Soft start - soft stop
- » Stepless starting
- » Reduction of current peaks
- » Maintenance-free switching
- » Space saving design



HP			Max FLA	Dimensions (inches) H x W x D	Model Number	List Price
200 V	230 V	460 V				
7.5	7.5	15	26	7.3 x 6.7 x 10.7	3RW4422-1BC34 ⁽¹⁾	\$3,639.81
10	10	20	32	7.3 x 6.7 x 10.7	3RW4423-1BC34 ⁽¹⁾	\$3,642.12
10	15	25	42	7.3 x 6.7 x 10.7	3RW4424-1BC34 ⁽¹⁾	\$3,580.66
15	15	30	51	7.3 x 6.7 x 10.7	3RW4425-1BC34 ⁽¹⁾	\$4,944.19
20	20	50	68	7.3 x 6.7 x 10.7	3RW4426-1BC34 ⁽¹⁾	\$5,038.92
25	25	60	82	7.3 x 6.7 x 10.7	3RW4427-1BC34 ⁽¹⁾	\$5,339.15
30	40	75	117	7.8 x 6.7 x 10.7	3RW4435-6BC34 ⁽²⁾	\$7,220.61
40	50	100	145	7.8 x 6.7 x 10.7	3RW4436-6BC34 ⁽²⁾	\$8,021.37
50	60	125	180	7.8 x 6.7 x 10.7	3RW4443-6BC34 ⁽³⁾	\$9,730.46
60	75	150	215	9.1 x 8.7 x 11.8	3RW4444-6BC34 ⁽³⁾	\$11,526.06
75	100	200	280	9.1 x 8.7 x 11.8	3RW4445-6BC34 ⁽³⁾	\$12,066.60
100	125	250	315	9.1 x 8.7 x 11.8	3RW4446-6BC34 ⁽³⁾	\$13,510.15
125	150	300	385	9.1 x 8.7 x 11.8	3RW4447-6BC34 ⁽³⁾	\$18,052.27
150	200	400	494	24.6 x 20.1 x 9.9	3RW4453-6BC34 ⁽³⁾	\$16,407.26
150	200	450	551	24.6 x 20.1 x 9.9	3RW4454-6BC34 ⁽³⁾	\$23,602.50
200	250	500	615	24.6 x 20.1 x 9.9	3RW4455-6BC34 ⁽³⁾	\$28,941.33

Additional Product Notes

- All above are screw terminals, 115 volt control
- (1) Box lug kit included
- (2) Optional - box lug kit model #3RT-1956-4G, list price \$101.86
- (3) Optional - box lug kit model #3RT-1966-4G, list price \$274.14

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS 3RW52 Series Chassis Soft Starters

SIRIUS 3RW52 General Performance soft starters are the ideal solution for standard applications. With 3-phase motor control, they cover the performance range from 7.5HP to 400HP (at 460VAC).

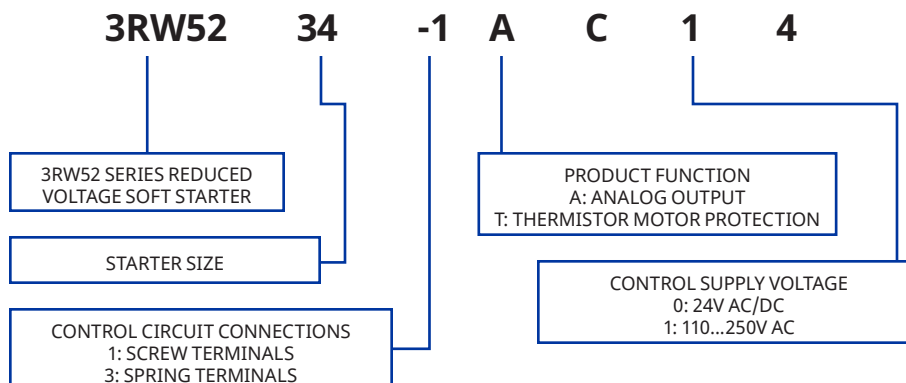
Product Specifications

- » Hybrid switching devices and three-phase motor control
- » Minimum power loss and optimum/symmetrical motor control
- » Efficient configuration and maximum flexibility in automation engineering
- » Soft Torque
- » Reduced mechanical loading and optimum pump stop
- » Parameterization using potentiometers
- » Simple and fast commissioning
- » Wide range for control supply and main voltage
- » Low variance, high system availability even with weak supply networks



Normal Starting Class 10E						
HP			Max FLA	Dimensions (inches) H x W x D	Model Number ⁽¹⁾	List Price
200 V	230 V	460 V				
2	3	7.5	11.5	10.83 x 6.69 x 5.98	3RW5213-ooCo4	\$1,612.53
3	5	10	15.9	10.83 x 6.69 x 5.98	3RW5214-ooCo4	\$1,779.35
5	8	15	22.3	10.83 x 6.69 x 5.98	3RW5215-ooCo4	\$1,973.96
7.5	10	20	28.4	10.83 x 6.69 x 5.98	3RW5216-ooCo4	\$2,196.38
10	10	20	33.5	10.83 x 6.69 x 5.98	3RW5217-ooCo4	\$2,446.60
10	10	30	41.6	12.05 x 7.28 x 7.99	3RW5224-ooCo4	\$2,780.23
15	20	40	55.5	12.05 x 7.28 x 7.99	3RW5225-ooCo4	\$3,113.86
20	25	50	68.0	12.05 x 7.28 x 7.99	3RW5226-ooCo4	\$3,419.68
25	30	60	82.5	12.05 x 7.28 x 7.99	3RW5227-ooCo4	\$3,753.31
30	30	75	101	12.05 x 7.28 x 7.99	3RW5234-ooCo4	\$4,253.75
40	40	100	128	12.05 x 7.28 x 7.99	3RW5235-ooCo4	\$5,060.02
50	50	100	153	12.05 x 7.28 x 7.99	3RW5236-ooCo4	\$5,866.28
60	60	150	186	15.47 x 8.27 x 7.99	3RW5243-ooCo4	\$6,839.36
60	75	150	220	15.47 x 8.27 x 7.99	3RW5244-ooCo4	\$7,979.26
75	100	200	279	15.47 x 8.27 x 7.99	3RW5245-ooCo4	\$9,452.78
100	125	250	328	15.47 x 8.27 x 7.99	3RW5246-ooCo4	\$11,065.31
150	150	350	416	15.47 x 8.27 x 7.99	3RW5247-ooCo4	\$13,011.47
150	200	400	504	15.47 x 8.27 x 7.99	3RW5248-ooCo4	\$14,651.81

(1) Model Number Selection



Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

WWS Series Definite Purpose Motor Starters - Three Phase 230-480 Volt

The WWS series 3 phase definite purpose starters provide compact load control for application-specific use. These starters are available up to 50HP @ 230VAC and 100HP @480VAC.

Product Specifications

- » NEMA 1 enclosure
- » Door mounted reset PB standard
- » Knockouts for field kits
- » Control terminals for field ease
- » Large enclosure for wire bends
- » Field kits for local start / stop
- » Field kits for HOA operation
- » 24 VAC and 208 VAC control coil available
- » Reset pushbutton supplied standard



HP Rating	Main Voltage	Overload Current Setting	Motor FLA	Auxiliary Contacts	Dimensions (Inches) H x W x D	Box Size	With Main Voltage Coil *		With 120 Volt Coil *	
							Model Number	List Price	Model Number	List Price
230 Volt - Three Phase										
1	230	4-6	4.2	1NO+1NC	10 x 6 x 4.63	A	WWS1-230	\$207.58	WWS1-230-120C	\$207.58
1.5	230	5-8	6	1NO+1NC	10 x 6 x 4.63	A	WWS1.5-230	\$207.58	WWS1.5-230-120C	\$207.58
2	230	6-9	6.8	1NO+1NC	10 x 6 x 4.63	A	WWS2-230	\$207.58	WWS2-230-120C	\$207.58
3	230	7-10	9.6	1NO+1NC	10 x 6 x 4.63	A	WWS3-230	\$215.71	WWS3-230-120C	\$215.71
5	230	12-18	15.2	1NO+1NC	10 x 6 x 4.63	A	WWS5-230	\$215.71	WWS5-230-120C	\$215.71
7.5	230	18-25	22	1NO+1NC	10 x 6 x 4.63	A	WWS7.5-230	\$254.48	WWS7.5-230-120C	\$254.48
10	230	22-32	28	1NO+1NC	10 x 6 x 4.63	A	WWS10-230	\$271.02	WWS10-230-120C	\$271.02
15	230	34-50	42	2NO+2NC	13.25 x 7.38 x 6.13	B	WWS15-230	\$409.29	WWS15-230-120C	\$409.29
20	230	45-65	54	2NO+2NC	13.25 x 7.38 x 6.13	B	WWS20-230	\$431.42	WWS20-230-120C	\$431.42
25	230	54-75	68	2NO+2NC	20.25 x 8.75 x 7.31	C	WWS25-230	\$807.81	WWS25-230-120C	\$807.81
30	230	70-95	80	2NO+2NC	20.25 x 8.75 x 7.31	C	WWS30-230	\$835.53	WWS30-230-120C	\$835.53
40	230	95-130	104	2NO+2NC	20.25 x 8.75 x 7.31	C	WWS40-230	\$1,163.05	WWS40-230-120C	\$1,163.05
50	230	110-150	130	2NO+2NC	25 x 8.75 x 7.31	D	WWS50-230	\$2,504.37	WWS50-230-120C	\$2,504.37
480 Volt - Three Phase										
1	480	1.5-2.5	2.1	1NO+1NC	10 x 6 x 4.63	A	WWS1-480	\$207.58	WWS1-480-120C	\$207.58
2	480	2.5-4	3.4	1NO+1NC	10 x 6 x 4.63	A	WWS2-480	\$207.58	WWS2-480-120C	\$207.58
3	480	4-6	4.8	1NO+1NC	10 x 6 x 4.63	A	WWS3-480	\$207.58	WWS3-480-120C	\$207.58
5	480	6-9	7.6	1NO+1NC	10 x 6 x 4.63	A	WWS5-480	\$215.71	WWS5-480-120C	\$215.71
7.5	480	9-13	11	1NO+1NC	10 x 6 x 4.63	A	WWS7.5-480	\$215.71	WWS7.5-480-120C	\$215.71
10	480	12-18	14	1NO+1NC	10 x 6 x 4.63	A	WWS10-480	\$254.48	WWS10-480-120C	\$254.48
15	480	18-25	21	1NO+1NC	10 x 6 x 4.63	A	WWS15-480	\$254.48	WWS15-480-120C	\$254.48
20	480	22-32	27	2NO+2NC	10 x 6 x 4.63	A	WWS20-480	\$345.80	WWS20-480-120C	\$345.80
25	480	28-40	34	2NO+2NC	10 x 6 x 4.63	A	WWS25-480	\$374.78	WWS25-480-120C	\$374.78
30	480	34-50	40	2NO+2NC	13.25 x 7.38 x 6.13	B	WWS30-480	\$431.42	WWS30-480-120C	\$431.42
40	480	45-65	52	2NO+2NC	13.25 x 7.38 x 6.13	B	WWS40-480	\$774.18	WWS40-480-120C	\$774.18
50	480	54-75	65	2NO+2NC	20.25 x 8.75 x 7.31	C	WWS50-480	\$807.81	WWS50-480-120C	\$807.81
60	480	63-85	77	2NO+2NC	20.25 x 8.75 x 7.31	C	WWS60-480	\$949.41	WWS60-480-120C	\$949.41
75	480	80-100	96	2NO+2NC	20.25 x 8.75 x 7.31	C	WWS75-480	\$1,468.30	WWS75-480-120C	\$1,468.30
100	480	110-150	124	2NO+2NC	25 x 8.75 x 7.31	D	WWS100-480	\$2,504.37	WWS100-480-120C	\$2,504.37

WWS Series Definite Purpose Motor Starters - Single Phase 240 Volt

The WWS series 1 phase definite purpose starters provide compact load control for application-specific use. These starters are available up to 10HP @ 230VAC.

Product Specifications

- » NEMA 1 enclosure
- » Door mounted reset PB standard
- » Knockouts for field kits
- » Control terminals for field ease
- » Large enclosure for wire bends
- » Field kits for local start / stop
- » Field kits for HOA operation
- » 24 VAC and 208 VAC control coil available
- » Reset pushbutton supplied standard



HP Rating	Main Voltage	Overload Current Setting	Motor FLA	Auxiliary Contacts	Dimensions (Inches) H x W x D	Box Size	With Main Voltage Coil *		With 120 Volt Coil *	
							Model Number	List Price	Model Number	List Price
230 Volt - Single Phase										
1/2	240	4-6	4.9	1NO+1NC	10 x 6 x 4.63	A	WWS0.5-2301P	\$199.12	WWS0.5-2301P-120C	\$199.12
3/4	240	5-8	6.9	1NO+1NC	10 x 6 x 4.63	A	WWS0.75-2301P	\$199.12	WWS0.75-2301P-120C	\$199.12
1	240	6-9	8	1NO+1NC	10 x 6 x 4.63	A	WWS1-2301P	\$199.12	WWS1-2301P-120C	\$199.12
1.5	240	9-13	10	1NO+1NC	10 x 6 x 4.63	A	WWS1.5-2301P	\$199.12	WWS1.5-2301P-120C	\$199.12
2	240	9-13	12	1NO+1NC	10 x 6 x 4.63	A	WWS2-2301P	\$204.65	WWS2-2301P-120C	\$204.65
3	240	12-18	17	1NO+1NC	10 x 6 x 4.63	A	WWS3-2301P	\$232.30	WWS3-2301P-120C	\$232.30
5	240	22-32	28	2NO+2NC	10 x 6 x 4.63	A	WWS5-2301P	\$282.08	WWS5-2301P-120C	\$282.08
7.5	240	34-50	40	2NO+2NC	13.25 x 7.38 x 6.13	B	WWS7.5-2301P	\$376.11	WWS7.5-2301P-120C	\$376.11
10	240	45-65	50	2NO+2NC	13.25 x 7.38 x 6.13	B	WWS10-2301P	\$376.11	WWS10-2301P-120C	\$376.11

WWS Series Definite Purpose Motor Starter Accessories, Kits and Parts

Description	Box Size	Model Number	List Price
Start/Stop Pushbutton Kit (Double Headed Style)	A	WWS-SS-A	\$84.62
Start/Stop Pushbutton Kit (Double Headed Style)	B	WWS-SS-B	\$94.03
Start/Stop Pushbutton Kit (Double Headed Style)	C	WWS-SS-C	\$94.03
H-O-A Switch Kit (3 Position)	A	WWS-HOA-A	\$99.56
H-O-A Switch Kit (3 Position)	B	WWS-HOA-B	\$99.56
H-O-A Switch Kit (3 Position)	C	WWS-HOA-C	\$99.56
Replacement Reset Pushbutton Kit	A	WWS-RS-A	\$44.25
Replacement Reset Pushbutton Kit	B, C	WWS-RS-BC	\$44.25
AUX 1NO, 1NC	A,B,C	UA-1-11	\$27.99
Replacement Coils Are Available: 24V / 120V / 208V / 230V / 480V		Consult Factory	—



SIEMENS Class 14 Motor Starters with ESP200 Solid State Overload: Open, NEMA 1, NEMA 12 & 3/3R

SIEMENS Across The Line Motor Starters are available in NEMA Sizes 00 through 5. In addition to the usual NEMA Starter Sizes, SIEMENS offers three exclusive Half Sizes: 1 3/4, 2 1/2 and 3 1/2. These integral sizes offer the same rugged, industrial construction as our NEMA Sizes and ensure efficient operating performance.

Product Specifications

- » Open, NEMA 1, NEMA 12 Enclosures
- » Door mounted reset PB standard
- » Knockouts for field kits
- » Control terminals for field ease
- » Large enclosure for wire bends
- » Field kits for local start / stop
- » Field kits for HOA operation
- » Reset pushbutton supplied standard
- » N.O. holding contact



14CUD32A*
Open



14EUE32B*
NEMA 1

HP				NEMA Size	Overload Amp Range	Enclosure					
200V	230V	460V	575V			Open		NEMA 1		NEMA 12 NEMA 3/3R	
						Model Number	List Price	Model Number	List Price	Model Number	List Price
1/6	1/6	1/3	1/2	00	0.25-1	14BUA32A*	\$600.48	14BUA32B*	\$615.34	Use Size 0	---
1/2	3/4	1 1/2	2	00	0.75-3.4	14BUB32A*	\$600.48	14BUB32B*	\$615.34	Use Size 0	---
1 1/2	1 1/2	2	—	00	3-12	14BUC32A*	\$695.73	14BUC32B*	\$615.34	Use Size 0	---
1/6	1/6	1/3	1/2	0	0.25-1	14CUA32A*	\$695.73	14CUA32B*	\$737.47	14CUA320*	\$959.52
1/2	3/4	1 1/2	2	0	0.75-3.4	14CUB32A*	\$699.13	14CUB32B*	\$737.47	14CUB320*	\$959.52
2	2	5	5	0	3-12	14CUC32A*	\$699.13	14CUC32B*	\$737.47	14CUC320*	\$959.52
3	3	—	—	0	5.5-22	14CUD32A*	\$618.33	14CUD32B*	\$737.47	14CUD320*	\$959.52
1/6	1/6	1/3	1/2	1	0.25-1	14DUA32A*	\$790.20	14DUA32B*	\$832.64	14DUA320*	\$1,051.48
1/2	3/4	1 1/2	2	1	0.75-3.4	14DUB32A*	\$790.20	14DUB32B*	\$832.64	14DUB320*	\$1,051.48
2	2	5	5	1	3-12	14DUC32A*	\$790.20	14DUC32B*	\$832.64	14DUC320*	\$1,051.48
3	3	10	10	1	5.5-22	14DUD32A*	\$790.20	14DUD32B*	\$832.64	14DUD320*	\$1,051.48
7 1/2	7 1/2	—	—	1	10-40	14DUE32A*	\$790.20	14DUE32B*	\$832.64	14DUE320*	\$1,051.48
10	10	15	15	1 3/4	10-40	14EUE32A*	\$1,072.44	14EUE32B*	\$1,103.84	14EUE320*	\$1,324.31
10	15	25	25	2	13-52	14FUF32A*	\$1,370.86	14FUF32B*	\$1,562.21	14FUF320*	\$1,958.71
15	20	30	30	2 1/2	25-100	14GUG32A*	\$1,785.86	14GUG32B*	\$2,052.25	14GUG320*	\$2,488.40
25	30	50	50	3	25-100	14HUG32A*	\$2,186.98	14HUG32B*	\$2,543.92	14HUG320*	\$3,018.13
30	40	75	75	3 1/2	50-200	14IUH32A*	\$4,119.19	14IUH32B*	\$4,910.19	14IUH320*	\$6,477.17
40	50	100	100	4	50-200	14JUH32A*	\$4,657.54	14JUH32B*	\$5,639.76	14JUH320*	\$7,200.33
75	100	200	200	5	55-250	14LPU32A*	\$11,329.55	14LPU32B*	\$14,066.58	14LPU320*	\$18,336.46

Coil Table *	
60 Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110-120/220-240	A
200-208	D
220-240	G
277	L
220-240/440-480	C
440-480	H
550-600	E

Additional Product Notes

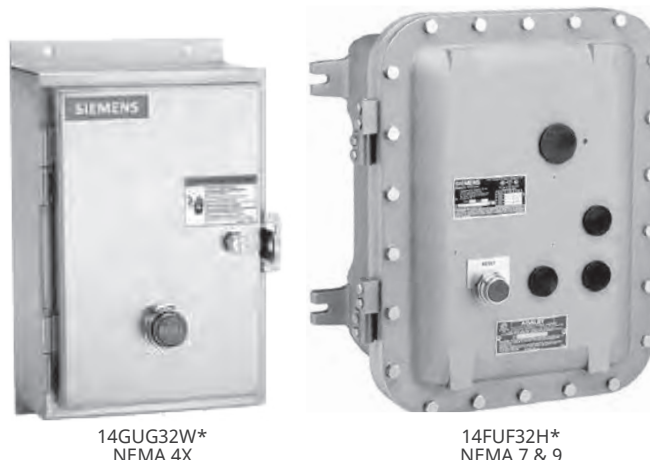
A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS Class 14 Motor Starters with ESP200 Solid State Overload: NEMA 4/4X, NEMA 7 & 9

SIEMENS Across The Line Motor Starters are available in NEMA Sizes 00 through 5. In addition to the usual NEMA Starter Sizes, SIEMENS offers three exclusive Half Sizes: 1 3/4, 2 1/2 and 3 1/2. These integral sizes offer the same rugged, industrial construction as our NEMA Sizes and ensure efficient operating performance.

Product Specifications

- » NEMA 4/4X, 7 & 9 Enclosures
- » Door mounted reset PB standard
- » Knockouts for field kits
- » Control terminals for field ease
- » Large enclosure for wire bends
- » Field kits for local start / stop
- » Field kits for HOA operation
- » Reset pushbutton supplied standard
- » N.O. holding contact



HP				NEMA Size	Overload Amp Range	Enclosure					
						NEMA 4/4X 304 Stainless Steel		NEMA 4X Fiberglass		NEMA 7 & 9 Explosion Proof	
200V	230V	460V	575V			Model Number	List Price	Model Number	List Price	Model Number	List Price
1/6	1/6	1/3	1/2	00	0.25-1	Use Size 0	---	Use Size 0	---	Use Size 0	---
1/2	3/4	1 1/2	2	00	0.75-3.4	Use Size 0	---	Use Size 0	---	Use Size 0	---
1 1/2	1 1/2	2	—	00	3-12	Use Size 0	---	Use Size 0	---	Use Size 0	---
1/6	1/6	1/3	1/2	0	0.25-1	14CUA32W*	\$1,381.38	14CUA32F*	\$1,517.80	14CUA32H*	\$5,506.90
1/2	3/4	1 1/2	2	0	0.75-3.4	14CUB32W*	\$1,381.38	14CUB32F*	\$1,517.80	14CUB32H*	\$5,506.90
2	2	5	5	0	3-12	14CUC32W*	\$1,381.38	14CUC32F*	\$1,517.80	14CUC32H*	\$5,506.90
3	3	—	—	0	5.5-22	14CUD32W*	\$1,381.38	14CUD32F*	\$1,517.80	14CUD32H*	\$5,506.90
1/6	1/6	1/3	1/2	1	0.25-1	14DUA32W*	\$1,487.63	14DUA32F*	\$1,636.75	14DUA32H*	\$5,662.63
1/2	3/4	1 1/2	2	1	0.75-3.4	14DUB32W*	\$1,487.63	14DUB32F*	\$1,636.75	14DUB32H*	\$5,662.63
2	2	5	5	1	3-12	14DUC32W*	\$1,487.63	14DUC32F*	\$1,636.75	14DUC32H*	\$5,662.63
3	3	10	10	1	5.5-22	14DUD32W*	\$1,487.63	14DUD32F*	\$1,636.75	14DUD32H*	\$5,662.63
7 1/2	7 1/2	—	—	1	10-40	14DUE32W*	\$1,487.63	14DUE32F*	\$1,636.75	14DUE32H*	\$5,662.63
10	10	15	15	1 3/4	10-40	14EUE32W*	\$1,757.28	14EUE32F*	\$1,934.89	14EUE32H*	\$5,761.61
10	15	25	25	2	13-52	14FUF32W*	\$2,872.23	14FUF32F*	\$3,159.26	14FUF32H*	\$8,354.67
15	20	30	30	2 1/2	25-100	14GUG32W*	\$3,636.64	14GUG32F*	\$3,999.83	14GUG32H*	\$8,554.67
25	30	50	50	3	25-100	14HUG32W*	\$4,402.69	14HUG32F*	\$4,838.83	14HUG32H*	\$8,883.74
30	40	75	75	3 1/2	50-200	14IUH32W*	\$8,077.39	14IUH32F*	\$8,886.26	14IUH32H*	\$12,336.95
40	50	100	100	4	50-200	14JUH32W*	\$8,806.96	14JUH32F*	\$ 9687.19	14JUH32H*	\$13,386.61
75	100	200	200	5	55-250	14LPU32E*	\$19,436.07	—	—	14LPU32H*	\$42,447.92

Additional Product Notes

316 Stainless Steel Enclosure available (Consult Factory).

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

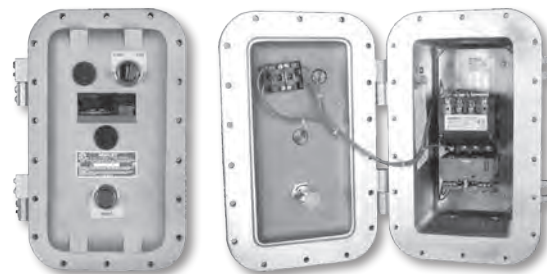
Coil Table *	
60 Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110-120/220-240	A
200-208	D
220-240	G
277	L
220-240/440-480	C
440-480	H
550-600	E

SIEMENS Class 14 Motor Starters with ESP200 Solid State Overload: Heavy Duty Explosion Proof with Installed Start/Stop Pushbuttons

SIEMENS Across The Line Motor Starters are available in NEMA Sizes 00 through 5. In addition to the usual NEMA Starter Sizes, SIEMENS offers three exclusive Half Sizes; 1 3/4, 2 1/2 and 3 1/2. These integral sizes offer the same rugged, industrial construction as our NEMA Sizes and ensure efficient operating performance.

Product Specifications

- » NEMA 7 & 9 / 3 & 4 enclosure
- » Bolted enclosure with hinged door
- » Start / stop pushbutton
- » Through door overload reset pushbutton
- » Hazardous Areas Classification:
 - › Division 1 and Division 2
 - › Class I, Groups C & D; Class II, Groups E, F & G; Class III
- » Solid state ESP200 overload relay
- » Ground fault trip when selected
- » Selectable trip class: 5, 10, 20 or 30
- » Reset trip can be selected auto / manual reset
- » Overload is self powered, no need for external power source
- » 230/460 Dual voltage, 50/60 Hz dual frequency coils
- » For other coil voltages - consult factory



HP				NEMA Size	Overload Amp Range	NEMA 7 & 9 / NEMA 3 & 4 Explosion Proof	
200V	230V	460V	575V			Model Number	List Price
2	2	5	5	1	3-12	14DUC32HCA1	\$6,014.35
3	3	10	10	1	5.5-22	14DUD32HCA1	\$6,014.35
7 1/2	7 1/2	—	—	1	10-40	14DUE32HCA1	\$6,014.35
10	10	15	15	1 3/4	10-40	14EUE32HCA1	\$6,179.57
10	15	25	25	2	13-52	14FUF32HCA1	\$8,772.63
15	20	30	30	2 1/2	25-100	14GUG32HCA1	\$8,976.25
25	30	50	50	3	25-100	14HUG32HCA1	\$9,301.46
30	40	75	75	3 1/2	50-200	14IUH32HCA1	\$12,754.91
40	50	100	100	4	50-200	14JUH32HCA1	\$13,804.57

Additional Product Notes

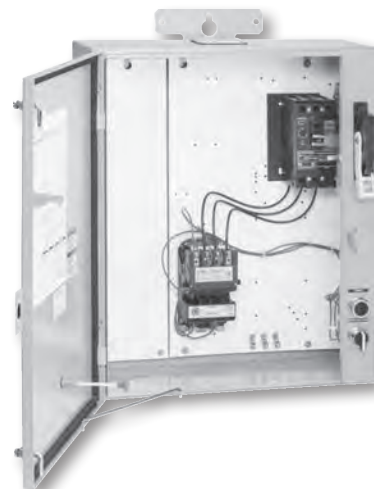
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SIEMENS IPP Series Irrigation Pump Panels

Pump controllers monitor flow and/or level variables and control a pump accordingly to maintain the desired levels. Pump control can include simply turning a pump on and off or more advanced controls for pump speed, output pressure, etc. Installation is easy. Panels are factory wired to provide flexible control and protect against short circuits and overloads. Ample space is provided for field modifications and installation of accessories.

Product Specifications

- » Heavy duty NEMA starters
- » Fully gasketed NEMA 3R rainproof enclosures
- » Start pushbutton
- » HOA selector switch
- » Solid state overload relays
- » Copper grounding lug for three #6 wires
- » Heavy duty disconnect handle
- » Bold pilot legend
- » Generous accessory space
- » CSA certified file #LR6535
- » UL listed for outdoor use and service equipment file #E14900
- » Bi-metal overload also available - consult factory
- » For other coil voltages - consult factory



HP				Solid State Overload				
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Amp Range	Fuse / Breaker Size	Model Number	List Price
Fusible Disconnect								
—	—	7.5	10	1	5.5-22	30A / 600V	IPP1-460-ESP2	\$1,540.71
7.5	7.5	—	—	1	10-40	30A / 600V	IPP1-230-ESP2	\$1,516.68
—	—	15	15	1.75	10-40	30A / 600V	IPP1.75-460-ESP2	\$1,808.98
10	10	—	—	1.75	10-40	60A / 250V	IPP1.75-230-ESP2	\$1,808.98
—	—	25	25	2	13-52	60A / 600V	IPP2-460-ESP2	\$2,064.45
10	15	—	—	2	13-52	60A / 250V	IPP2-230-ESP2	\$2,041.27
—	—	30	30	2.5	25-100	60A / 600V	IPP2.5-460-ESP2	\$2,588.05
15	20	—	—	2.5	25-100	60A / 250V	IPP2.5-230-ESP2	\$2,402.09
—	—	50	50	3	25-100	100A / 600V	IPP3-460-ESP2	\$2,942.29
20	25	—	—	3	25-100	100A / 250V	IPP3-230-ESP2	\$2,657.17
—	—	75	75	3.5	50-200	200A / 600V	IPP3.5-460-ESP2	\$5,002.40
30	40	—	—	3.5	50-200	200A / 250V	IPP3.5-230-ESP2	\$4,576.53
—	—	100	100	4	50-200	200A / 600V	IPP4-460-ESP2	\$5,413.55
40	50	—	—	4	50-200	200A / 250V	IPP4-230-ESP2	\$5,192.67
—	—	200	200	5	55-250	400A / 600V	IPP5-460-ESP2	\$11,374.61
75	100	—	—	5	55-250	400A / 250V	IPP5-230-ESP2	\$11,374.61
Breaker Disconnect								
7.5	7.5	10	—	1	10-40	30	IPPCB1-230/460-ESP2	\$1,937.13
—	—	15	15	1.75	10-40	40	IPPCB1.75-460-ESP2	\$2,169.38
10	15	25	25	2	13-52	50	IPPCB2-230/460-ESP2	\$2,402.67
15	20	30	30	2.5	25-100	100	IPPCB2.5-230/460-ESP2	\$2,758.29
25	30	50	50	3	25-100	100	IPPCB3-230/460-ESP2	\$2,982.79
30	40	75	75	3.5	50-200	125	IPPCB3.5-230/460-ESP2	\$5,903.92
40	50	100	100	4	50-200	150	IPPCB4-230/460-ESP2	\$6,315.96

Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS Class 18 MCP Type with Solid State Overload: NEMA 1, 3/3R, 12

Pre-wired combination starters eliminate the cost of wiring between separate disconnect and starter. Factory testing assures field performance. Combination starters also provide a more compact and attractive installation than separate units.

Product Specifications

- » SIEMENS type ETI breaker
- » Short circuit protection
- » Industrial type disconnect handle
- » Wide range of enclosure types available
- » Solid state ESP200 overload relay
- » Flexibility with field modifications
- » Easy to install
- » Fusible disconnect available - consult factory
- » UL Listed and CSA Certified
- » Bi-metal overload also available - consult factory



HP				NEMA Size	Breaker Size	Overload Amp Range	Frame Size	Enclosure			
								NEMA 1		NEMA 12 NEMA 3/3R	
200 Volts	230 Volts	460 Volts	575 Volts					Model Number	List Price	Model Number	List Price
1/2	1/2	1	1	0	3	0.75-3.4	A	18CUB92B*	\$1,975.48	18CUB92N*	\$2,334.77
2	2	5	5	0	10	3-12	A1	18CUC92B*	\$1,975.48	18CUC92N*	\$2,334.77
3	3	—	—	0	25	5.5-22	A1	18CUD92B*	\$1,975.48	18CUD92N*	\$2,334.77
1/2	1/2	1	1	1	3	0.75-3.4	A	18DUB92B*	\$2,049.94	18DUB92N*	\$2,410.54
2	2	5	5	1	10	3-12	A1	18DUC92B*	\$2,049.94	18DUC92N*	\$2,410.54
3	3	7 1/2	10	1	25	5.5-22	A1	18DUD92B*	\$2,049.94	18DUD92N*	\$2,410.54
7 1/2	7 1/2	10	—	1	30	10-40	A1	18DUE92B*	\$2,049.94	18DUE92N*	\$2,410.54
—	—	15	15	1.75	40	10-40	A1	18EUE92B*	\$2,273.36	18EUE92N*	\$2,635.27
10	15	25	25	2	50	13-52	B	18FUF92B*	\$2,876.98	18FUF92N*	\$3,386.53
15	20	30	30	2.5	100	25-100	B	18GUG92B*	\$3,817.68	18GUG92N*	\$4,481.39
25	30	50	50	3	100	25-100	B	18HUG92B*	\$4,149.54	18HUG92N*	\$4,806.73
30	40	75	75	3.5	125	50-200	B	18IUH92B*	\$8,424.50	18IUH92N*	\$10,253.64
40	50	100	100	4	150	50-200	B	18JUH92B*	\$9,024.19	18JUH92N*	\$10,853.34
50	75	150	200	5	250	55-250	—	18LPT92B*	\$20,839.14	18LPT92N*	\$24,135.51
75	100	200	—	5	400	55-250	—	18LPU92B*	\$20,839.14	18LPU92N*	\$24,135.51

Coil Table *	
60 Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110-120/220-240	A
200-208	D
220-240	G
277	L
220-240/440-480	C
440-480	H
550-600	E

Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS Class 18 MCP Type with Solid State Overload: NEMA 4/4X, 7 & 9

Pre-wired combination starters eliminate the cost of wiring between separate disconnect and starter. Factory testing assures field performance. Combination starters also provide a more compact and attractive installation than separate units.

Product Specifications

- » SIEMENS type ETI breaker
 - Short circuit protection
- » Industrial type disconnect handle
- » Wide range of enclosure types available
- » Solid state ESP200 overload relay
- » Flexibility with field modifications
- » Easy to install
- » Fusible disconnect available - consult factory
- » UL Listed and CSA Certified
- » Bi-metal overload also available - consult factory



HP				NEMA Size	Breaker Size	Overload Amp Range	Frame Size	Enclosure					
								NEMA 4/4X 304 Stainless Steel		NEMA 4X Fiberglass		NEMA 7 & 9 Explosion Proof	
200 Volts	230 Volts	460 Volts	575 Volts					Model Number	List Price	Model Number	List Price	Model Number	List Price
1/2	1/2	1	1	0	3	0.75-3.4	A	18CUB92W*	\$3,415.27	18CUB92F*	\$3,758.88	18CUB92H*	\$10,397.58
2	2	5	5	0	10	3-12	A1	18CUC92W*	\$3,415.27	18CUC92F*	\$3,758.88	18CUC92H*	\$10,397.58
3	3	—	—	0	25	5.5-22	A1	18CUD92W*	\$3,415.27	18CUD92F*	\$3,758.88	18CUD92H*	\$10,397.58
1/2	1/2	1	1	1	3	0.75-3.4	A	18DUB92W*	\$3,488.43	18DUB92F*	\$3,839.89	18DUB92H*	\$10,810.00
2	2	5	5	1	10	3-12	A1	18DUC92W*	\$3,488.43	18DUC92F*	\$3,839.89	18DUC92H*	\$10,810.00
3	3	7 1/2	10	1	25	5.5-22	A1	18DUD92W*	\$3,488.43	18DUD92F*	\$3,839.89	18DUD92H*	\$10,810.00
7 1/2	7 1/2	10	—	1	30	10-40	A1	18DUE92W*	\$3,488.43	18DUE92F*	\$3,839.89	18DUE92H*	\$10,810.00
—	—	15	15	1.75	40	10-40	A1	18EUE92W*	\$3,717.08	18EUE92F*	\$4,085.52	18EUE92H*	\$11,259.23
10	15	25	25	2	50	13-52	B	18FUF92W*	\$5,094.16	18FUF92F*	\$5,606.32	18FUF92H*	\$13,981.90
15	20	30	30	2.5	100	25-100	B	18GUG92W*	\$7,690.23	18GUG92F*	\$8,455.85	18GUG92H*	\$14,202.24
25	30	50	50	3	100	25-100	B	18HUG92W*	\$8,019.48	18HUG92F*	\$8,820.38	18HUG92H*	\$15,530.98
30	40	75	75	3.5	125	50-200	B	18IUH92W*	\$13,373.63	18IUH92F*	\$14,710.21	18IUH92H*	\$19,115.88
40	50	100	100	4	150	50-200	B	18JUH92W*	\$13,973.33	18JUH92F*	\$15,370.01	18JUH92H*	\$21,906.85
50	75	150	200	5	250	55-250	—	18LPT92E*	\$33,466.75	—	—	18LPT92H*	Call for availability
75	100	200	—	5	400	55-250	—	18LPU92E*	\$34,494.98	—	—	18LPU92H*	Call for availability

Coil Table *	
60 Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110-120/220-240	A
200-208	D
220-240	G
277	L
220-240/440-480	C
440-480	H
550-600	E

Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS ESP200 Solid State Electronic Overload Relays

Self-powered ESP200 overload relays provide accuracy unmatched in the market. With repeat accuracy of greater than 99%, trips can be set to the most specific conditions, resulting in both longer motor life and cost savings. The ESP200 overload relay is so simple to configure. No software or manuals are required.

Product Specifications

- » Selectable Trip Classes: 5, 10, 20 and 30
- » Manual, automatic, and remote reset
- » Phase loss protection - trips in less than 3 seconds
- » Phase unbalance protection - trips based on trip class selected (minimize temperature rise of the motor on an asymmetrical three-phase system)
- » Thermal memory (prevents restarting the motor when it is hot)
- » Ground fault protection - trips 60% of motor current
- » Ambient insensitive (prevents nuisance tripping)
- » FLA dial with wide range - 4:1 ratio
- » One NO and one NC contacts standard
- » Self protected in short circuit condition
- » Visible trip indicator
- » Touch-safe terminals
- » Removable terminals



Full Load Amp Range	Frame Size	New Model Number	Old Model Number	List Price
Three-Phase				
0.25-1	A	3UB81134AB2	48ATA3S00	\$300.85
0.75-3.4	A	3UB81134BB2	48ATB3S00	\$305.44
3-12	A1	3UB81234CW2	48ATC3S00	\$305.44
5.5-22	A1	3UB81234DW2	48ATD3S00	\$305.44
10-40	A1	3UB81234EW2	48ATE3S00	\$305.44
13-52	B	3UB81334FW2	48BTF3S00	\$433.72
25-100	B	3UB81334GW2	48BTG3S00	\$505.50
50-200	B	3UB81334HW2	48BTH3S00	\$685.71
100-300	A1 ⁽¹⁾	3UB81234JW2	48ATJ3S00	\$357.37
133-400	A1 ⁽²⁾	3UB81234KW2	48ATK3S00	\$357.37
200-600	A1 ⁽³⁾	3UB81234LW2	48ATL3S00	\$357.37
250-750	A1 ⁽⁴⁾	3UB81234MW2	48ATM3S00	\$357.37
400-1220	A1 ⁽⁵⁾	3UB81234NW2	48ATN3S00	\$357.37

SIEMENS Control Transformers

Industrial control power transformers step voltages down to lower levels for use in machine tool and industrial control circuits. They also isolate control circuits from all power and lighting circuits reducing noise interference. Industrial and construction markets demand rugged, reliable design for manufacturing plants and commercial applications.

VA	Model Number	List Price
50	MT0050A	\$135.00
100	MT0100A	\$182.00
150	MT0150A	\$191.00
250	MT0250A	\$278.00
500	MT0500A	\$402.00
750	MT0750A	\$553.00
1000	MT1000A	\$674.00
1500	MT1500A	\$951.00



Current Transformers

Current Ratio	New Model Number	Old Model Number	List Price	Dimensions (Inches)
1 per phase with 24" leads				
300:5	2RL301	97CT005	\$258.52	1.05 Window x 2.46 OD x 1.05 W
400:5	5RL401	97CT006	\$258.52	1.56 Window x 3.58 OD x 1.10 W
600:5	5RL601	97CT008	\$258.52	1.56 Window x 3.58 OD x 1.10 W
750:5	5RL751	97CT009	\$258.52	1.56 Window x 3.58 OD x 1.10 W
1200:5	5RL122	97CT012	\$258.52	1.56 Window x 3.58 OD x 1.10 W



Additional Product Notes

Frame Size A, direct couples to contactor with terminal connections
 Frame Size A1 up to 40A and B, direct couples to contactor with feed-through openings
 Frame Size A1 above 100A, stand alone with feed-through openings

- (1) Requires use of 300:5 current transformers - (3) 2RL301
- (2) Requires use of 400:5 current transformers - (3) 5RL401
- (3) Requires use of 600:5 current transformers - (3) 5RL601
- (4) Requires use of 750:5 current transformers - (3) 5RL751
- (5) Requires use of 1200:5 current transformers - (3) 5RL122

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SIEMENS Overload Relay Heaters for Class 20 Trip

Heaters provide a maximum trip rating of 125% of minimum motor amperes for 40°C motors (service factor 1.15). For other motors (service factor 1.0), select the next lower listed heater catalog number within the designated table, which provides a maximum trip rating of approximately 115%.

Overload relays do not provide protection against short circuits. To ensure proper coordination with short circuit protective device, select heaters from the information packaged with the control device.

Bi-Metal Standard Trip							
Full Load Amps					Model Number	List Price	
Size 00,0,1	Size 1 3/4	Size 2, 2 1/2	Size 3, 3 1/2	Size 4			
Trip Class 20 - Three-Phase							
0.38-0.40	—	—	—	—	E6	\$26.14	
0.41-0.43	—	—	—	—	E7	\$26.14	
0.44-0.48	—	—	—	—	E8	\$26.14	
0.49-0.53	—	—	—	—	E9	\$26.14	
0.54-0.57	—	—	—	—	E11	\$26.14	
0.58-0.62	—	—	—	—	E12	\$26.14	
0.63-0.66	—	—	—	—	E13	\$26.14	
0.67-0.72	—	—	—	—	E14	\$26.14	
0.73-0.80	—	—	—	—	E16	\$26.14	
0.81-0.85	—	—	—	—	E17	\$26.14	
0.86-0.92	—	—	—	—	E18	\$26.14	
0.93-0.99	—	—	—	—	E19	\$26.14	
1.00-1.08	—	—	—	—	E23	\$26.14	
1.09-1.23	—	—	—	—	E24	\$26.14	
1.24-1.37	—	—	—	—	E26	\$26.14	
1.38-1.54	—	—	—	—	E27	\$26.14	
1.55-1.69	—	—	—	—	E28	\$26.14	
1.70-1.80	—	—	—	—	E29	\$26.14	
1.81-1.94	—	—	—	—	E31	\$26.14	
1.95-2.07	—	—	—	—	E32	\$26.14	
2.08-2.26	—	—	—	—	E33	\$26.14	
2.27-2.54	2.27-2.54	—	—	—	E34	\$26.14	
2.55-2.69	2.55-2.69	—	—	—	E36	\$26.14	
2.70-2.88	2.70-2.88	—	—	—	E37	\$26.14	
2.89-3.14	2.89-3.14	—	—	—	E38	\$26.14	
3.15-3.40	3.15-3.40	—	—	—	E39	\$26.14	
3.41-3.81	3.41-3.81	—	—	—	E41	\$26.14	
3.82-4.26	3.82-4.25	—	—	—	E42	\$26.14	
4.27-4.62	4.26-4.62	—	—	—	E44	\$26.14	
4.63-5.09	4.63-5.09	—	—	—	E46	\$26.14	
5.10-5.61	5.10-5.61	—	—	—	E47	\$26.14	
5.62-5.91	5.62-5.91	—	—	—	E48	\$26.14	
5.92-6.15	5.92-6.15	—	—	—	E49	\$26.14	
6.16-6.70	6.16-6.70	—	—	—	E50	\$26.14	
6.71-7.54	6.71-7.54	—	—	—	E51	\$26.14	
7.55-8.29	7.55-8.29	—	—	—	E52	\$26.14	
8.30-8.99	8.30-8.99	—	—	—	E53	\$26.14	
9.00-9.85	9.00-9.85	—	—	—	E54	\$26.14	
9.86-10.4	9.86-10.4	—	—	—	E55	\$26.14	
10.5-12.0	10.5-12.0	10.5-12.0	—	—	E56	\$26.14	

Bi-Metal Standard Trip						
Full Load Amps					Model Number	List Price
Size 00,0,1	Size 1 3/4	Size 2, 2 1/2	Size 3, 3 1/2	Size 4		
Trip Class 20 - Three-Phase						
12.1-13.6	12.1-13.6	12.1-13.6	—	—	E57	\$26.14
13.7-15.6	13.7-15.6	13.7-15.6	—	—	E60	\$26.14
15.7-17.0	15.7-17.0	15.7-17.1	—	—	E61	\$26.14
17.1-18.4	17.1-19.4	17.2-19.4	—	—	E62	\$26.14
18.5-19.4	19.5-20.9	19.5-20.9	—	—	E65	\$26.14
19.5-21.3	21.0-22.2	21.0-22.2	—	—	E66	\$26.14
21.4-24.4	22.3-25.3	22.3-25.3	—	—	E67	\$26.14
24.5-25.9	25.4-26.9	25.4-26.9	30.0-33.5	—	E69	\$26.14
26.0-27.0	27.0-30.2	27.0-30.2	33.6-36.4	—	E70	\$26.14
—	—	—	36.5-39.6	—	E71	\$26.14
—	30.3-33.3	30.3-33.3	—	—	E72	\$26.14
—	33.4-36.0	33.4-35.3	39.7-43.6	—	E73	\$26.14
—	—	—	43.7-46.5	—	E73A	\$26.14
—	—	35.4-41.5	46.6-51.6	—	E74	\$26.14
—	—	41.6-45.0	51.7-54.4	—	E76	\$26.14
—	—	45.1-52.3	54.5-58.0	—	E77	\$26.14
—	—	52.4-55.7	58.1-63.0	—	E78	\$26.14
—	—	55.8-60.0	63.1-67.7	—	E79	\$26.14
—	—	—	67.8-72.4	—	E80	\$26.14
—	—	—	—	—	E88	\$26.14
—	—	—	—	56.9-60.9	E89	\$26.14
—	—	—	—	61.0-63.9	E91	\$26.14
—	—	—	—	64.0-67.7	E92	\$26.14
—	—	—	—	67.8-72.4	E93	\$26.14
—	—	—	72.5-80.0	72.5-77.7	E94	\$26.14
—	—	—	80.1-88.1	77.8-85.9	E96	\$26.14
—	—	—	88.2-91.5	86.0-91.9	E97	\$26.14
—	—	—	91.6-96.8	92.0-96.7	E98	\$26.14
—	—	—	96.9-99.0	96.8-105	E99	\$26.14
—	—	—	99.1-108	—	E101	\$26.14
—	—	—	—	—	E102	\$26.14
—	—	—	—	106-115	E103	\$26.14
—	—	—	—	116-130	E104	\$26.14

Additional Product Notes

For Class 10 trip heaters Consult Factory.

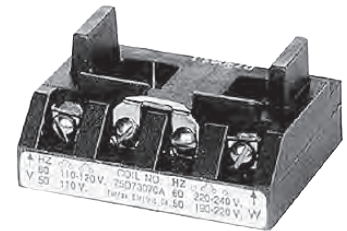
For single-phase ratings Consult Factory.

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS Replacement Coils for NEMA Starters

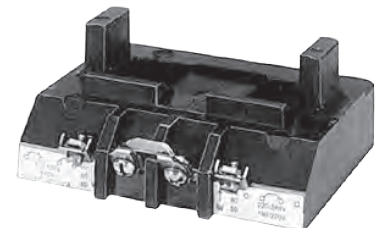
Size 00 - 2.5, 3, 3.5 Replacement Coils

Size	Volts		Model Number	List Price
	60 Hz	50 Hz		
00 - 2.5	24	24	75D73070J	\$234.79
	120	110	75D73070F	\$234.79
	110-120 / 220-240	110 / 190-200	75D73070A	\$234.79
	208	—	75D73070D	\$234.79
	220-240	190-220	75D73070G	\$234.79
	277	240	75D73070L	\$398.12
	220-240 / 440-480	190-220 / 380-440	75D73070C	\$234.79
	440-480	380-440	75D73070H	\$234.79
	575-600	550	75D73070E	\$297.07
3, 3.5	24	24	75D73251J	\$433.84
	120	110	75D73251F	\$433.84
	110-120 / 220-240	110 / 190-200	75D73251A	\$433.84
	208	—	75D73251D	\$433.84
	220-240	190-220	75D73251G	\$433.84
	277	240	75D73251L	\$433.84
	220-240 / 440-480	190-220 / 380-440	75D73251C	\$433.84
	440-480	380-440	75D73251H	\$433.84
	575-600	550	75D73251E	\$433.84



Size 4 Replacement Coils

Size	Volts		Model Number	List Price
	60 Hz	50 Hz		
4	24	24	75D70131J	\$603.74
	120	110	75D70131F	\$603.74
	110-120 / 220-240	110 / 190-200	75D70131A	\$603.74
	208	—	75D70131D	\$763.84
	220-240	190-220	75D70131G	\$763.84
	277	240	75D70131L	\$603.74
	220-240 / 440-480	190-220 / 380-440	75D70131C	\$603.74
	440-480	380-440	75D70131H	\$780.19
	575-600	550	75D70131E	\$603.74



Size 5, 6 Replacement Coils

Size	Volts		Model Number	List Price
	60 Hz	50 Hz		
5	23-26	23-26	3RT1965-5AB31	\$496.08
	110-127	110-127	3RT1965-5AF31	\$496.08
	200-220	200-220	3RT1965-5AM31	\$496.08
	220-240	220-240	3RT1965-5AP31	\$496.08
	240-277	240-277	3RT1965-5AU31	\$496.08
	380-420	380-420	3RT1965-5AV31	\$496.08
	440-480	440-480	3RT1965-5AR31	\$506.76
	575-600	575-600	3RT1965-5AT31	\$496.08
6	23-26	23-26	3RT1975-5AB31	\$640.40
	110-127	110-127	3RT1975-5AF31	\$640.40
	200-220	200-220	3RT1975-5AM31	\$640.40
	220-240	200-240	3RT1975-5AP31	\$640.40
	240-277	240-277	3RT1975-5AU31	\$640.40
	380-420	380-420	3RT1975-5AV31	\$640.40
	440-480	440-480	3RT1975-5AR31	\$651.90
	575-600	575-600	3RT1975-5AT31	\$640.40



Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

WDP Series Definite Purpose AC Contactors

The WDP series Definite Purpose Contactors provide compact load control for application-specific use. These contactors are available 2,3 and 4 pole configurations.

Product Specifications

- » Rated current from 25-60A
- » 1-, 2-, and 3-pole configurations at 25A, 30A, and 40A
- » 3-pole configurations at 50A and 60A
- » Enclosed coil standard for all 3-pole frame sizes
- » Open coil standard for all 1- and 2-pole frame sizes
- » Industry standard mounting plate provides easily accessible mounting holes
- » Connection terminal box lug connections each with quick connect/disconnect terminals
- » Coil is class B 266°F (130°C) insulation system with a wide range of voltages and 50/60 Hz ratings
- » Temperature range -40 to 158 °F (-40 to 70 °C)
- » UL 508 Recognized, File No. E330834
- » CSA file No. 266851



Horsepower (HP)					Resistive Loads @ 600VAC (A)	Locked Rotor Amps (A)			FLA (A) 600VAC Max ⁽¹⁾	Poles	Coil Voltage (VAC)	Model Number	List Price				
Single Phase		Three Phase				240/277V	480V	600V									
120V	240/277V	240/277V	480V	600V													
1	2	-	-	-	35	150	125	100	25	1NO+Shunt	120	WDP25-1L-120	\$16.58				
									25		230	WDP25-1L-230	\$16.58				
2	3								25	2NO	120	WDP25-2L-120	\$19.18				
											25	230	WDP25-2L-230	\$19.18			
2	5	10	15	20					25	3NO	120	WDP25-3L-120	\$35.90				
											25	230	WDP25-3L-230	\$35.90			
1	2	-	-	-	40	200	150	120	30	1NO+Shunt	120	WDP30-1L-120	\$17.59				
									30		230	WDP30-1L-230	\$17.59				
2	3								30	2NO	24	WDP30-1L-24	\$17.59				
											30	120	WDP30-2L-120	\$21.12			
30	230								24	WDP30-2L-24	\$21.12						
												30	120	WDP30-2L-230	\$21.12		
2	5	10	15	20					30	3NO	120	WDP30-3L-120	\$37.95				
											30	230	WDP30-3L-230	\$37.95			
											30	24	WDP30-3L-24	\$37.95			
											30	480	WDP30-3L-480	\$37.95			
2	3	-	-	-					50	240	200	160	40	1NO+Shunt	120	WDP40-1L-120	\$18.85
													40		230	WDP40-1L-230	\$18.85
3	7.5	10	20	25	40	2NO	120	WDP40-2L-120					\$28.16				
							40	230					WDP40-2L-230	\$28.16			
40	230	24	WDP40-3L-120	\$43.70													
					40	120	WDP40-3L-120	\$43.70									
					40	230	WDP40-3L-230	\$43.70									
					40	24	WDP40-3L-24	\$43.70									
7.5	10	15	25	25	65	300	250	200	50	3NO	120	WDP50-3L-120	\$65.30				
									50		230	WDP50-3L-230	\$65.30				
									50		24	WDP50-3L-24	\$65.30				
7.5	10	25	30	30	75	360	300	240	60		120	WDP60-3L-120	\$116.27				
									60		230	WDP60-3L-230	\$116.27				
									60		24	WDP60-3L-24	\$116.27				

WDP Series DP Contactors Auxiliary Contacts Specifications & Selection																		
Current Ratings												For Use With	Mounting	Contact Arrangement	Wiring	Model Number	List Price	
Break (A)				Make (A)				Continous (A)	120 VAC on Lamp Load (A)	125 VDC (A)	250 VDC (A)							125 or 250 VAC
120VAC	240VAC	480VAC	600VAC	120VAC	240VAC	480VAC	600VAC	120-600										
3	1.5	0.75	0.6	30	15	7.5	6	5	4	1/2	1/4	10A, 1/3HP	WDP25-60 (3 Pole Only)	Side mounted ⁽²⁾	1NO + 1NC	#6-32 screw terminal, wire range #14-22 AWG	WDPAXFC11	\$29.13
												1NO + 1NC	0.250 Quick Connection	WDPAXFC11Q	\$29.13			
												One switch per side	1NO + 1NC	0.250 Quick Connection	WDPAXFD11	\$29.13		
												Two switches	2NO + 2NC	0.250 Quick Connection	WDPAXFD22	\$36.41		

Additional Product Notes

(1) Full load amperage applies at 240/277, 480, and 600V

(2) Maximum of two may be mounted per contactor

UL file #E330834, Standard UL 60947-1

SIEMENS IEC Contactors: Frame Sizes S00, S0, S2, S3, S6, S10, S12

SIRIUS has long been synonymous world-wide for industrial controls and was a trendsetter in this field from the very beginning. The SIRIUS modular system with its components for the switching, starting, protection and monitoring of motors and industrial systems stands for the fast, flexible and space-saving construction of control cabinets.

Product Specifications

- » Four point AC coil can be wired on top, bottom or diagonally
- » Direct mount 3RU21 overload relays to create starters
- » Snap-on auxiliary contacts, surge suppressors and timers
- » Contactors are available with cage clamps on both main and auxiliary terminal connections
- » Screw terminal type connection
- » To maintain UL Certifications, use 3RU*** series on page 48

- » Easy access plug-in AC/DC coil system
- » Integrated varistor surge suppressor
- » Snap-on auxiliary contacts, surge suppressors and timers
- » Front and side mounted auxiliary contacts



Enclosed Amp Ratings		Single-Phase HP Ratings			Three-Phase HP Ratings				Auxiliary Contacts		Replace "*" in model number Model Code at bottom of this table	
AC3	AC1	115 V	208 V	230 V	208 V	230 V	460 V	575 V	NO	NC	Model Number	List Price
IEC Contactors - Frame Size S00												
7	18	1/4	1/2	3/4	1.5	2	3	5	1	0	3RT2015-1A**1	\$150.25
									0	1	3RT2015-1A**2	\$150.25
9	22	1/3	1	1	2	3	5	7.5	1	0	3RT2016-1A**1	\$161.21
									0	1	3RT2016-1A**2	\$161.21
12	22	1/2	1.5	2	3	3	7.5	10	1	0	3RT2017-1A**1	\$198.26
									0	1	3RT2017-1A**2	\$198.26
16	22	1	2	2	3	5	10	10	1	0	3RT2018-1A**1	\$252.01
									0	1	3RT2018-1A**2	\$252.01
IEC Contactors - Frame Size S0												
9	40	1	1	1	2	3	5	7.5	1	1	3RT2023-1A**0	\$156.43
12	40	1	2	2	3	3	7.5	10	1	1	3RT2024-1A**0	\$184.94
16	40	1	2	3	5	5	10	15	1	1	3RT2025-1A**0	\$245.30
25	40	2	3	3	7.5	7.5	15	20	1	1	3RT2026-1A**0	\$326.23
32	50	2	5	5	10	10	20	25	1	1	3RT2027-1A**0	\$473.84
38	50	3	5	5	10	10	25	25	1	1	3RT2028-1A**0	\$528.35
IEC Contactors - Frame Size S2												
40	60	3	5	7.5	10	15	30	40	1	1	3RT2035-1A**0	\$497.90
50	70	3	7.5	10	15	15	40	50	1	1	3RT2036-1A**0	\$539.41
65	80	5	10	10	20	20	50	50	1	1	3RT2037-1A**0	\$760.97
65	90	5	10	15	20	25	50	60	1	1	3RT2038-1A**0	\$863.00
IEC Contactors - Frame Size S3												
80	120	7.5	15	15	25	30	60	75	1	1	3RT2045-1A**0	\$1435.43
95	120	10	15	20	30	30	75	100	1	1	3RT2046-1A**0	\$1944.00
96	125	10	10	20	30	40	75	100	1	1	3RT2047-1A**0	\$2,085.08
AC Coil Table Frame Size S00-S3												
Coil Selection			Model Code			C2	K6	P6	U6	V6	T6	† For frame size S00, use code BO
			60 Hz Voltage			24	120	240	277	480	600	
			50 Hz Voltage			24	110	220	---	---	---	

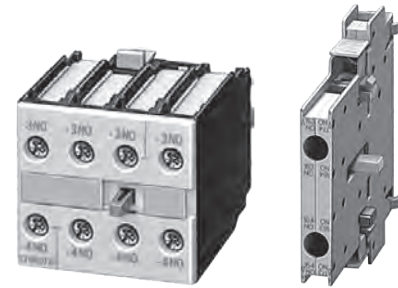
Enclosed Amp Ratings		Single-Phase HP Ratings			Three-Phase HP Ratings				Auxiliary Contacts		Replace "***" in model number Model Code at bottom of this table	
AC3	AC1	115 V	208 V	230 V	208 V	230 V	460 V	575 V	NO	NC	Model Number	List Price
IEC Contactors - SIRIUS 3RT10: 3-Pole AC/DC Coil: Frame Size S6												
115	160	—	—	—	40	50	100	125	2	2	3RT1054-6A**6	\$1,300.88
150	185	—	—	—	50	60	125	150	2	2	3RT1055-6A**6	\$1,875.00
185	215	—	—	—	60	75	150	200	2	2	3RT1056-6A**6	\$2,497.79
IEC Contactors - SIRIUS 3RT10: 3-Pole AC/DC Coil: Frame Size S10												
225	275	—	—	—	75	75	150	200	2	2	3RT1064-6A**6	\$2,682.52
265	330	—	—	—	75	100	200	250	2	2	3RT1065-6A**6	\$2,990.04
300	330	—	—	—	100	125	250	300	2	2	3RT1066-6A**6	\$4,059.73
IEC Contactors - SIRIUS 3RT10: 3-Pole AC/DC Coil: Frame Size S12												
400	430	—	—	—	125	150	300	400	2	2	3RT1075-6A**6	\$4,825.22
500	610	—	—	—	150	200	400	500	2	2	3RT1076-6A**6	\$6,905.97
AC Coil Table Frame Size S6-S12 UC Conventional Coil												
Coil Selection		Model Code			B3	F3	M3	P3	U3	R3	S3	T3
		Volts AC/DC			23-26	110-127	200-220	220-240	240-277	440-480	500-550	575-600

SIEMENS IEC Auxiliary Contact Blocks

Product Specifications

- » Not compatible with previous generation 3RT1*** series contactors (Frame Size S00 - S0)
- » Other auxiliary block combinations available
- » To maintain UL Certification, use on 3RT2*** series contactors

Frame Size	NO	NC	Model Number	List Price
Top Mount				
S00 - S3	2	2	3RH2911-1FA22	\$75.34
S6 - S12	2	2	3RH1921-1FA22	\$100.10
Side Mount				
S00	1	1	3RH2911-1DA11	\$67.35
S0 - S3	1	1	3RH2921-1DA11	\$68.31
S6 - S12	1	1	3RH1921-1DA11	\$88.66



SIEMENS IEC Thermal Overload Relays

SIRIUS overload relays with screw-type, spring-loaded or ring cable lug connections reliably protect loads as well as other switching and protective devices in the respective load feeder against overload, phase asymmetry and phase failure.

Product Specifications

- » Thermal Class 10
- » 1NO, 1NC contacts
- » Manual / automatic reset
- » Test function
- » Direct mount



Contactor Frame Size	Setting Range Amp	Screw Terminal Model Number	List Price
Frame S00	0.11 - 0.16	3RU2116-0AB0	\$133.50
	0.14 - 0.2	3RU2116-0BB0	\$133.50
	0.18 - 0.25	3RU2116-0CB0	\$133.50
	0.22 - 0.32	3RU2116-0DB0	\$133.50
	0.28 - 0.4	3RU2116-0EB0	\$133.50
	0.35 - 0.5	3RU2116-0FB0	\$133.50
	0.45 - 0.63	3RU2116-0GB0	\$133.50
	0.55 - 0.8	3RU2116-0HB0	\$133.50
	0.7 - 1.0	3RU2116-0JB0	\$133.50
	0.9 - 1.25	3RU2116-0KB0	\$133.50
	1.1 - 1.6	3RU2116-1AB0	\$133.50
	1.4 - 2	3RU2116-1BB0	\$133.50
	1.8 - 2.5	3RU2116-1CB0	\$133.50
	2.2 - 3.2	3RU2116-1DB0	\$133.50
	2.8 - 4	3RU2116-1EB0	\$133.50
	3.5 - 5	3RU2116-1FB0	\$120.68
	4.5 - 6.3	3RU2116-1GB0	\$133.50
	5.5 - 8	3RU2116-1HB0	\$133.50
	7 - 10	3RU2116-1JB0	\$133.50
	9 - 12.5	3RU2116-1KB0	\$133.50
	11 - 16	3RU2116-4AB0	\$133.50

Contactor Frame Size	Setting Range Amp	Screw Terminal Model Number	List Price
Frame S0	1.8 - 2.5	3RU2126-1CB0	\$157.99
	2.2 - 3.2	3RU2126-1DB0	\$157.99
	2.8 - 4	3RU2126-1EB0	\$157.99
	3.5 - 5	3RU2126-1FB0	\$157.99
	4.5 - 6.3	3RU2126-1GB0	\$157.99
	5.5 - 8	3RU2126-1HB0	\$157.99
	7 - 10	3RU2126-1JB0	\$157.99
	9 - 12.5	3RU2126-1KB0	\$157.99
	11 - 16	3RU2126-4AB0	\$157.99
	14 - 20	3RU2126-4BB0	\$157.99
	17 - 22	3RU2126-4CB0	\$157.99
	20 - 25	3RU2126-4DB0	\$157.99
	23 - 28	3RU2126-4NB0	\$243.58
	27 - 32	3RU2126-4EB0	\$243.58
	30 - 36	3RU2126-4PB0	\$243.58
	34 - 40	3RU2126-4FB0	\$243.58

Contactor Frame Size	Setting Range Amp	Screw Terminal Model Number	List Price
Frame S2	22 - 32	3RU2136-4EB0	\$273.30
	28 - 40	3RU2136-4FB0	\$165.74
	36 - 45	3RU2136-4GB0	\$165.74
	40 - 50	3RU2136-4HB0	\$165.74
	47 - 57	3RU2136-4QB0	\$165.74
	54 - 65	3RU2136-4JB0	\$165.74
	62 - 73	3RU2136-4KB0	\$372.30
	70 - 80	3RU2136-4RB0	\$428.74
Frame S3	28 - 40	3RU2146-4FB0	\$236.70
	36 - 50	3RU2146-4HB0	\$236.70
	70 - 90	3RU2146-4LB0	\$236.70
	80 - 100	3RU2146-4MB0	\$257.49

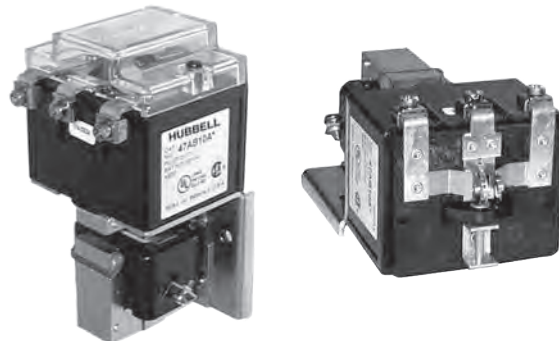
Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

HUBBELL Alternator Relays

Product Specifications

- » Single pole double throw heavy duty 10 amp silver cadmium oxide contacts enclosed in a transparent dust cover
- » The circuit is never closed or opened while current is conducted to prolong control life
- » No load transfer
- » Front wired
- » Industrial & rugged design



Volts 60 Hz	Open Type		NEMA 1 Enclosure	
	Model Number	List Price	Model Number	List Price
24	47AB10AJ	\$901.89	47AB10BJ	\$1,270.60
120	47AB10AF	\$901.89	47AB10BF	\$1,270.60
200	47AB10AD	\$901.89	47AB10BD	\$1,270.60
240	47AB10AG	\$901.89	47AB10BG	\$1,270.60
480	47AB10AH	\$901.89	47AB10BH	\$1,270.60

Electrical Ratings For Alternator Relays		
Volts	Make	Break
120	60	6
240	30	3
480	15	1.5

HUBBELL Drum Controllers

Product Specifications

- » Start, stop and adjust the speed and/or rotating direction of reversible AC and DC motors.
- » Variety of handle styles are available as field modifications.
- » Magnetic chuck switches available
- » Enclosure types NEMA 1 and NEMA 4
- » Easy terminal access
- » Heavy duty contacts



Type / Purpose	Max. HP						Enclosure	
	Single-Phase AC			Three-Phase AC		DC	NEMA 1	
	120 Volts	240 Volts	480 Volts	240 Volts	480-600 Volts	120-240 Volts	Model Number	List Price
Reversing / Maintaining	1.5	2	—	2	2	1/4	58R44†	\$1019.62

Additional Product Notes

- » OSHA regulations and local installation codes may require guarding of handles. Consult all requirements prior to selecting a drum switch or handle.
 - » Guarded handles prevent unintentional operation.
- †Switch is shipped in a maintained configuration, customer adjustable to momentary.
‡WR44 is available as maintained only.

HUBBELL Pressure Switches

Cut-In (PSI)	Cut-Out (PSI)	Model Number	List Price
Pressure Switches - Air (69J Series)			
80	100	69JF6	\$54.58
80	100	69JF6L	\$60.18
80	100	69JF6LY	\$65.09
80	100	69JF6LY2C	\$74.07
80	100	69JF6Y	\$63.88
95	125	69JF7	\$54.58
95	125	69JF7L	\$60.18
95	125	69JF7LY	\$65.09
95	125	69JF7LY2A	\$69.20
95	125	69JF7LY2C	\$68.05
95	125	69JF7Y	\$63.88
95	125	69JF7Y2C	\$71.98
115	150	69JF8	\$54.58
115	150	69JF8LY	\$65.09
115	150	69JF8LY2C	\$68.05
115	150	69JF8Y	\$63.88
140	175	69JF9	\$54.58
140	175	69JF92C	\$58.56
140	175	69JF9LY	\$65.09
140	175	69JF9LY2C	\$68.05
140	175	69JF9Y	\$63.88
80	100	69JG6	\$62.49
80	100	69JG6L	\$72.91
80	100	69JG6LY	\$72.91
80	100	69JG6Y	\$70.60
95	125	69JG7	\$62.49
95	125	69JG7LY	\$72.91
95	125	69JG7LY2C	\$82.17
95	125	69JG7Y	\$70.60
115	150	69JG8	\$62.49
115	150	69JG8LY	\$72.91
115	150	69JG8LY2C	\$82.17
115	150	69JG8Y	\$70.60
140	175	69JG9	\$62.49
140	175	69JG9LY	\$72.91
140	175	69JG9LY2C	\$82.17
140	175	69JG9Y	\$70.60
140	175	69JG9Y2C	\$78.69
Heavy Duty Pressure Switches - Air (69H Series)			
115	150	69HA1	\$266.18
115	150	69HA12S	\$277.75
115	150	69HA1G	\$277.75
140	175	69HA1Z140-175	\$277.75
115	150	69HAU1	\$269.88
140	175	69HAU12AZ140-175	\$269.88
140	175	69HAU1Z140-175	\$269.88
100	125	69HAU2	\$269.88
30	40	69HA3	\$277.75
30	40	69HAU3	\$282.15
115	150	69HB1	\$282.15
115	150	69HBU1	\$285.15
100	125	69HB2	\$282.15
100	125	69HBU2	\$285.15
30	40	69HBU3	\$285.15

Cut-In (PSI)	Cut-Out (PSI)	Model Number	List Price
Spare Unloader Valves			
—	—	69DCA	\$22.92
—	—	69DJA	\$22.92

Cut-In (PSI)	Cut-Out (PSI)	Model Number	List Price
Pressure Switches - Water (69ES Series)			
30	50	69ES1	\$68.15
20	40	69ES1Z20-40	\$69.36
40	60	69ES1Z40-60	\$69.36
30	50	69ES2	\$76.07
30	50	69ES2B	\$78.31

Cut-In (PSI)	Cut-Out (PSI)	Model Number	List Price
Pressure Switches - Water (69W Series)			
30	50	69WA4	\$74.35
30	50	69WA4B	\$75.62
30	50	69WA4G	\$75.62
20	40	69WA4GZ20-40	\$82.99
40	60	69WA4GZ40-60	\$82.99
30	50	69WA4L	\$73.23
20	40	69WA4LZ20-40	\$84.21
20	40	69WA4Z20-40	\$75.66
40	60	69WA4Z40-60	\$87.88
3	7	69WB2	\$73.23
5	10	69WB3	\$91.53
30	50	69WB5	\$76.89
12	150	69WC7	\$84.21
20	40	69WEC	\$95.19
30	50	69WECZ30-50	\$117.16
20	40	69WFC	\$117.16
80	100	69WH6	\$80.55
7	3	69WR2	\$111.06
10	5	69WR3	\$111.06
50	30	69WR5	\$85.63
100	75	69WR6	\$85.63
125	95	69WR7	\$81.43

69J Series - Air, Standard Duty

- » 1/4" female NPT with pulsation orifice
- » 69J rotatable unloader
- » Additional options available, see suffix chart



Suffix	Description
L	Auto-off disconnect lever
Y	Unloader valve
2A	1/4" male NPT
2C	Four-port manifold (4 x 1/4" female)

69H Series - Air, Heavy Duty

- » 3/8" female NPT with pulsation orifice
- » Additional options available, see suffix chart



Suffix	Description
U	Unloader valve
2A	1/4" male NPT
2S	1/4" female NPT

69ES Series - Water, 30-50 PSI

- » 1/4" female NPT pipe fitting
- » Additional options available, see suffix chart



Suffix	Description
B	Pulsation orifice

69ES Series - Water, 30-50 PSI

- » 1/4" female NPT pipe fitting
- » Additional options available, see suffix chart



Suffix	Description
B	Pulsation orifice
L	Auto-off disconnect lever

WorldWide Electric Pressure Switches

Product Specifications

- » UL and CSA Listed
- » Single 1/4" Female NPT Port
- » Normally Closed

		Standard Duty Single-phase ratings 120V: 1.5 HP/20A 240V: 2 HP/12A		Heavy Duty Single-phase ratings 120V: 2 HP/25A 240V: 3 HP/26A	
Factory Setting	Differential	Model Number	List Price	Model Number	List Price
1-Port Manifold					
80-100 PSI	20-35 PSI	WPAL80/100	\$31.86	WPAH80/100	\$42.04
95-125 PSI	30-40 PSI	WPAL95/125	\$31.86	WPAH95/125	\$42.04
115-150 PSI	35-55 PSI	WPAL115/150	\$31.86	WPAH115/150	\$42.04
140-175 PSI	40-55 PSI	WPAL140/175	\$35.95	WPAH140/175	\$46.46
4-Port Manifold					
80-100 PSI	20-35 PSI	WPAL480/100	\$34.07	WPAH480/100	\$44.25
95-125 PSI	30-40 PSI	WPAL495/125	\$34.07	WPAH495/125	\$44.25
115-150 PSI	35-55 PSI	WPAL4115/150	\$34.07	WPAH4115/150	\$44.25
140-175 PSI	40-55 PSI	WPAL4140/175	\$38.16	WPAH4140/175	\$48.34

Optional Adders		
Suffix	Description	List Price
L	Disconnect lever	\$1.11
U	Unloader valve	\$3.32
M	1/4" NPT male	\$2.22



WorldWide Electric Pressure Switches High Pressure - Air

Product Specifications

- » Up to 250 PSI
- » Normally Closed
- » 120 V - Single-Phase: 2 HP - 24 A
- » 240 V - Single-Phase: 3 HP - 20 A



Factory Setting	Model Number	List Price	Connection
High Pressure Air NEMA 1			
115-150 PSI	WPHL115/150	\$155.64	3/8" NPT Female
140-175 PSI	WPHL140/175	\$155.64	3/8" NPT Female
140-175 PSI	WPHL140/175MQ	\$160.07	1/4" NPT Male
High Pressure Air NEMA 1 - With Unloader Valve			
115-150 PSI	WPHL115/150U	\$158.96	3/8" NPT Female
140-175 PSI	WPHL140/175U	\$158.96	3/8" NPT Female
100-125 PSI	WPHL100/125U	\$166.70	3/8" NPT Female
30-40 PSI	WPHL30/40U	\$188.83	3/8" NPT Female

WorldWide Electric Pressure Switches High Pressure - Water

Product Specifications

- » Up to 50 PSI
- » Normally Closed
- » 120 V - Single-Phase: 2 HP - 24 A
- » 240 V - Single-Phase: 3 HP - 20 A



Factory Setting	Model Number	List Price	Connection
High Pressure Air NEMA 1			
30-50 PSI	WPWL30/50	\$45.13	No Disconnect
30-50 PSI	WPWL30/50L	\$46.24	Disconnect Lever

SIEMENS Class 52 Pilot Devices: 30mm Water & Oil Tight and Corrosion Resistant Product Line Overview

WorldWide Electric carries a complete line of pilot and signaling devices, from push-button operators to transformer pilot lights. Please contact us for more information on these devices.

Pushbutton Operators



- » Neoprene actuator seals prevent oil, dust and other contaminants from penetrating the contact blocks
- » Neoprene gasket to seal operator mounting hole
- » Chrome plated lock nut

Transformer Type Pilot Lights



- » Available with a 120, 240, 480 or 600 volt primary (50/60 Hz) and a separate secondary winding which supplies reduced voltage to a miniature bayonet base 6 volt lamp
- » Suitable for applications where vibration is present and long bulb life is desirable

Mushroom-Head Pushbutton Operators



- » Identical base construction to the pushbutton base
- » High-impact, moulded actuator for long life and durability
- » Available in either 1 5/8 Inch or 2 1/2 inch diameter head

Full Voltage Type Pilot Lights



- » Available for 6, 12, 24, 120 and 240 volt AC and DC applications
- » The 240 volt pilot light is supplied with a 120 volt lamp and a voltage dropping resistor

Contact Blocks



- » Double break bifurcated silver contacts, with gold flashing as standard provides improved contact fidelity
- » Heavy duty rated, NEMA A600
- » Suitable for applications down to 5V/1mA solid state outputs
- » Moulded bodies and pushers resist arcing and tracking
- » Stainless steel springs resist corrosion and provide strong contact pressure
- » Captive mounting screw speed panel assembly

LED-Type Pilot Lights



- » LEDs (Light Emitting Diodes) can be used in pilot lights instead of incandescent bulbs because of their long life (up to 10 years)
- » Resistance to vibration and ambient sensitivity

Push-Pull Operators



- » One unit to combine two or three functions
- » Maintained operator has two positions: PULL to start and PUSH to stop
- » Momentary operator with three positions provides spring return from both pull and push positions
- » Also available with a pilot light

Selector Operators



- » Positive action indexing
- » Short or long lever available
- » Moulded black lever designed to accept color inserts, standard white provided
- » Operator is equipped with a cam to actuate plungers of contact blocks assembled behind the operator
- » Two, three and four position operators are available with seven different cams

Volts	Make	Break
120	60	6
240	30	3
480	15	1.5
600	12	1.2
VA	7200	720

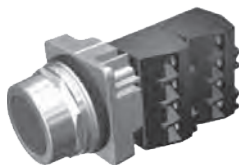
Electrical Ratings

- » NEMA AC Ratings 50/60 Hz
- » NEMA A600 10 Continuous Amps

Additional Product Notes

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

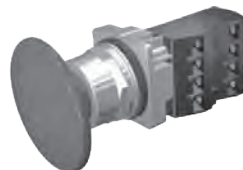
SIEMENS Class 52 Pilot Devices: 30mm Water and Oil Tight and Corrosion Resistant Momentary Push Button - Non-Illuminated



Flush Head



Extended Head



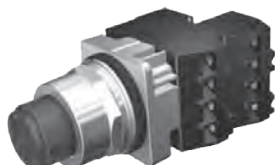
Large Mushroom Head 2-1/2"



Small Mushroom Head 1-3/4"

Head Style	Contacts	Color	Model Number	List Price
Flush	---	Black	52PM8A1	\$45.94
		Red	52PM8A2	\$45.94
		Green	52PM8A3	\$45.94
		Yellow	52PM8A4	\$45.94
Extended	---	Black	52PM8B1	\$45.94
		Red	52PM8B2	\$45.94
		Green	52PM8B3	\$45.94
Mushroom Head Plastic 1-3/4"	---	Red	52PM9W2	\$101.88
Mushroom Head Plastic 2-1/2"	---	Red	52PM9V2	\$101.88

SIEMENS Class 52 Pilot Devices: 30mm Water & Oil Tight and Corrosion Resistant Push Button and Push-to-Test - Non-Illuminated



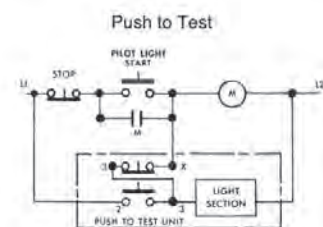
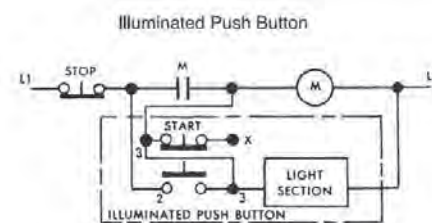
Extended Lens



Flush Lens

Type	Lamp Type	Voltage	Color	Contacts	Model Number	List Price
Full Voltage (AC/DC)	LED	24V	Red	1 NO - 1 NC	52PT6D2AB	\$228.17
			Green	1 NO - 1 NC	52PT6D3AB	\$228.17
			Blue	1 NO - 1 NC	52PT6D5AB	\$228.17
			Amber	1 NO - 1 NC	52PT6D9AB	\$228.17
			White	1 NO - 1 NC	52PT6DBAB	\$228.17
Full Voltage (AC/DC)	LED	120V	Red	1 NO - 1 NC	52PT6E2AB	\$228.17
			Green	1 NO - 1 NC	52PT6E3AB	\$228.17
Transformer (AC)	LED	120V	Red	1 NO - 1 NC	52PT6G2AB	\$251.78
			Green	1 NO - 1 NC	52PT6G3AB	\$251.78
			Amber	1 NO - 1 NC	52PT6G9AB	\$251.78
			White	1 NO - 1 NC	52PT6GBAB	\$251.78

Wiring Diagrams



SIEMENS Class 52 Pilot Devices: 30mm Water and Oil Tight and Corrosion Resistant Contact Blocks



52BAK



52BAJ

Contact Blocks			
Touchsafe Contact Blocks With Gold Flashing	Notes	Model Number	List Price
1 NO		52BAK ⁽²⁾	\$27.94
1 NC		52BAJ ⁽²⁾	\$27.94
1 NO - 1 NC		52BJK ⁽²⁾	\$51.65
1 NO Early Make	Closes Before 52BAK	52BAH	\$25.79
1 NC Late Break	Opens After 52BAJ	52BAE ⁽²⁾	\$25.79
1 NO - 1 NC	Reed Switch: UL listed for Class 1, Division 2; .25A Max, 200V AC, 10 Watt Max .5A Max, 200V DC, 10 Watt Max	52BAR ⁽¹⁾	\$104.25
1 NC Extra Late Break		52BAU ⁽²⁾	\$29.54

SIEMENS Class 52 Pilot Devices: 30mm Water and Oil Tight and Corrosion Resistant 2 & 3 Position Push-Pull Mushroom Head Devices - Non-Illuminated



Mushroom Head Metal 1-3/4"



Mushroom Head Plastic 2-1/2"



Mushroom Head Plastic 1-3/4"

Contacts	Color	Metal 1-3/4"		Plastic 1-3/4"		Plastic 2-1/2"	
		Model Number	List Price	Model Number	List Price	Model Number	List Price
2 Position - Maintained							
---	Red	52PP2A2	\$180.97	52PP2W2	\$149.49	52PP2V2	\$151.11
3 Position - Momentary In - Momentary Out							
---	Red	52PP3A2	\$180.97	52PP3W2	\$141.63	52PP3V2	\$141.63
3 Position - Maintained In - Momentary Out							
---	Red	52PP7A2	\$180.97	52PP7W2	\$141.63	52PP7V2	\$141.63

Additional Product Notes

(1) Hermetically sealed

(2) Positive opening according to IEC 60947-5-1, Appendix K

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS Class 52: 30mm Water & Oil Tight and Corrosion Resistant 2 & 3 Position Push-Pull Mushroom Head Devices - Illuminated



Mushroom Head Metal 1-3/4"



Mushroom Head Plastic 2-1/2"



Mushroom Head Plastic 1-3/4"

Type	Lamp Type	Voltage	Color	Contacts	Metal 1-3/4"		Plastic 1-3/4"	
					Model Number	List Price	Model Number	List Price
2 Position - Maintained								
Full Voltage (AC/DC)	LED	24V	Red	1 NO - 1 NC	52PP2D2AB†	\$273.82	52PP2DRAB†	\$258.08
			Green	1 NO - 1 NC	52PP2D3AB	\$273.82	52PP2DSAB	\$258.08
Full Voltage (AC/DC)	Incandescent	120V	Red	1 NO - 1 NC	52PP2E2A†	\$248.64	52PP2ERA†	\$229.76
Transformer (AC)	LED	120V	Red	1 NO - 1 NC	52PP2G2AB†	\$308.43	52PP2GRAB†	\$278.54
			Green	1 NO - 1 NC	52PP2G3AB	\$308.43	52PP2GSAB	\$278.54
3 Position - Momentary In - Momentary Out								
Full Voltage (AC/DC)	LED	24V	Green	1 NO - 1 NCELB	52PP3D3UB	\$297.42	52PP3DRUB	\$275.39
Full Voltage (AC/DC)	Incandescent	120V	Red	1 NO - 1 NCELB	52PP3E2	\$207.72	52PP3ER	\$190.41
Transformer (AC)	LED	120V	Red	1 NO - 1 NCELB	52PP3G2UB	\$306.86	52PP3GRUB	\$291.13
			Green	1 NO - 1 NCELB	52PP3G3UB	\$306.86	52PP3GSUB	\$291.13
3 Position - Maintained In - Momentary Out								
Full Voltage (AC/DC)	LED	24V	Green	1 NO - 1 NCELB	52PP7D3UB	\$297.42	52PP7DSUB	\$275.39
Transformer (AC)	LED	120V	Red	1 NO - 1 NCELB	52PP7G2UB	\$325.74	52PP7GRUB	\$316.31
			Green	1 NO - 1 NCELB	52PP7G3UB	\$325.74	52PP7GSUB	\$316.31

Additional Product Notes

† EMERGENCY-STOP control devices according to IEC 60947-5-5

SIEMENS Class 52 Pilot Devices: 30mm Water and Oil Tight and Corrosion Resistant *Selector Switches*



Short Lever



Long Lever

Contact Type	M = Maintained S = Spring Return	Short Lever		Long Lever	
		Model Number	List Price	Model Number	List Price
2 Position - Operator					
No Contacts	M M	52SA2AAB	\$63.45	52SB2AAB	\$63.45
No Contacts	M<---S	52SA2ACB	\$99.14	52SB2ACB	\$97.96
3 Position - Operator					
No Contacts	M M M	52SA2CAB	\$63.45	52SB2CAB	\$63.45
No Contacts	M M M	52SA2BAB	\$63.45	52SB2BAB	\$63.45
No Contacts	S--->M M	52SA2BBB	\$99.14	52SB2BBB	\$100.71
No Contacts	M M<---S	52SA2BCB	\$97.96	52SB2BCB	\$97.96
No Contacts	S--->M<---S	52SA2BDB	\$97.96	52SB2BDB	\$97.96

SIEMENS Class 52 Pilot Devices: 30mm Water and Oil Tight and Corrosion Resistant *Indicator Lights*



Plastic Lens



Glass Lens

Type	Lamp Type	Voltage	Color	Plastic Lens		Glass Lens	
				Model Number	List Price	Model Number	List Price
Full Voltage (AC/DC)	LED	120V	Red	52PL4E2XB	\$173.10	52PL5E2XB	\$196.70
			Green	52PL4E3XB	\$173.10	52PL5E3XB	\$196.70
			Amber	52PL4E9XB	\$173.10	52PL5E9XB	\$196.70
			Clear	52PL4EAXB	\$174.68	52PL5EAXB	\$196.70
			White	52PL4EBXB	\$174.68	52PL5EBXB	\$196.70
Full Voltage (AC/DC)	Incandescent	120V	Red	52PL4E2	\$144.78	52PL5E2	\$158.94
			Green	52PL4E3	\$144.78	52PL5E3	\$158.94
			Amber	52PL4E9	\$144.78	52PL5E9	\$158.94
			No Lens	52PL4EN	\$133.76	52PL5EN	\$141.63
Transformer (AC)	LED	120V	Red	52PL4G2XB	\$195.13	52PL5G2XB	\$236.05
			Green	52PL4G3XB	\$195.13	52PL5G3XB	\$236.05
			Amber	52PL4G9XB	\$195.13	52PL5G9XB	\$236.05
			White	52PL4GBXB	\$212.45	52PL5GBXB	\$236.05
Transformer (AC)	Incandescent	120V	Red	52PL4G2	\$165.23	52PL5G2	\$198.27
			Green	52PL4G3	\$165.23	52PL5G3	\$198.27
			Amber	52PL4G9	\$165.23	52PL5G9	\$198.27
			White	52PL4GB	\$165.23	52PL5GB	\$198.27

Additional Product Notes

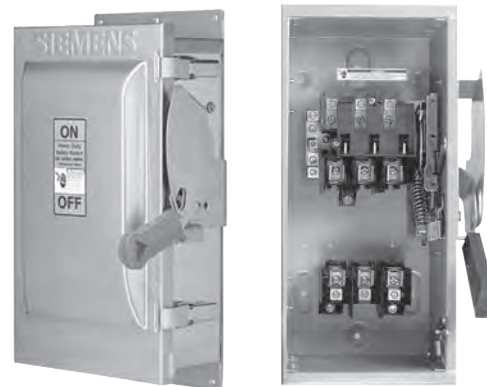
A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

SIEMENS VBII Safety Switches - General Duty - 240 Volt

SIEMENS VBII safety switches are built to last. Everything about the VBII safety switch has been designed for the engineer installer. Featuring rolled metal edges and corners to minimize cuts, nicks, and scrapes to the installer's hands and conductors and generous wiring gutters that meet or exceed UL and NEC wire bending space requirements. The enclosure is more rigid and resilient and all parts are replaceable for easier service. Our quick-make quick-break switching action coupled with our double break visible blade design ensures reliable operation in both general duty and heavy duty applications.

Product Specifications

- » Highly visible easy grip handle
- » Visible blade construction
- » Door opens greater than 180°
- » Quick-make, quick-break mechanism
- » 200% optional neutrals (200-600 Amps)
- » Positive two and three point mounting
- » Padlock style cover latch and handle
- » Generous wiring gutter
- » Front removable lugs easily convert to copper body or compression type
- » Lugs suitable for copper or aluminium at 60°C or 75°C
- » Replacement parts



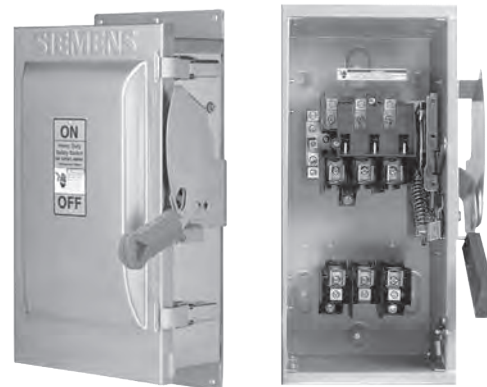
General Duty								
Amp Rating	NEMA 1 Indoor		NEMA 3R Outdoor		Horsepower Rating 240V AC			
	Model Number	List Price	Model Number	List Price	Single-Phase, 2-Wire		Three-Phase, 3-Wire	
					Std.	Max.	Std.	Max.
240 Volt Fusible - 2-Pole, 2-Fuse, Solid Neutral								
30	GF221NA	\$78.67	GF221NRA	\$125.12	1.5	3	3	7.5
60	GF222NA	\$130.09	GF222NRA	\$200.34	3	10	7.5	15
100	GF223N	\$268.36	GF223NR	\$294.18	7.5	15	15	30
200	GF224N	\$542.01	GF224NR	\$768.89	15	—	25	60
400	GF225NA	\$1,656.83	GF225NRA	\$2,120.60	15	—	50	125
600	GF226NA	\$3,265.59	GR226NRA	\$3,790.03	15	—	75	200
240 Volt Fusible - 3-Pole, 3 Fuse, Solid Neutral								
30	GF321NA	\$125.12	GF321NRA	\$187.23	1.5	3	3	7.5
60	GF322NA	\$205.80	GF322NRA	\$277.44	3	10	7.5	15
100	GF323N	\$357.19	GF323NR	\$514.03	7.5	15	15	30
200	GF324N	\$768.89	GF324NR	\$974.88	15	—	25	60
400	GF325NA	\$1,963.11	GF325NRA	\$2,372.76	15	—	50	125
600	GF326NA	\$3,657.27	GF326NRA	\$4,900.01	15	—	75	200
240 Volt Non Fusible - 3-Pole, 3-Wire, No Neutral - Also Used For 2-Pole Applications								
30	GNF321A	\$102.92	GNF321RA	\$176.36	—	3	7.5	—
60	GNF322A	\$125.12	GNF322RA	\$272.88	—	10	15	—
100	GNF323	\$294.12	GNF323R	\$514.03	—	15	30	—
200	GNF324	\$529.89	GNF324R	\$936.55	—	15	60	—
400	GNF325A	\$1,359.48	—	—	—	15	125	—
600	GNF326A	\$2,597.99	—	—	—	15	200	—

SIEMENS VBII Safety Switches - Heavy Duty - 600 Volt

SIEMENS VBII safety switches are built to last. Everything about the VBII safety switch has been designed for the engineer installer. Featuring rolled metal edges and corners to minimize cuts, nicks, and scrapes to the installer's hands and conductors and generous wiring gutters that meet or exceed UL and NEC wire bending space requirements. The enclosure is more rigid and resilient and all parts are replaceable for easier service. Our quick-make quick-break switching action coupled with our double break visible blade design ensures reliable operation in both general duty and heavy duty applications.

Product Specifications

- » Highly visible easy grip handle
- » Visible blade construction
- » Door opens greater than 180°
- » Quick-make, quick-break mechanism
- » 200% optional neutrals (200-600 Amps)
- » Positive two and three point mounting
- » Padlock style cover latch and handle
- » Generous wiring gutter
- » Front removable lugs easily convert to copper body or compression type
- » Lugs suitable for copper or aluminium at 60°C or 75°C
- » Replacement parts



Heavy Duty - 600 Volt										
Amp Rating	NEMA 1 Indoor		NEMA 3R Outdoor		NEMA 12 Industrial		Horsepower Rating			
	Model Number	List Price	Model Number	List Price	Model Number	List Price	480VAC Single-Phase, 2-Wire		600VAC Three-Phase, 3-Wire	
							Std.	Max.	Std.	Max.
600 Volt Fusible - 3-Pole, 3-Fuse, No Neutral - Also Used For 2-Pole Applications										
30	HF361	\$340.90	HF361R	\$589.75	HF361J	\$626.94	5	15	7.5	20
60	HF362	\$405.70	HF362R	\$691.73	HF362J	\$716.70	15	30	15	50
100	HF363	\$794.20	HF363R	\$1,091.12	HF363J	\$1,130.54	25	60	30	75
200	HF364	\$1,136.00	HF364R	\$1,516.32	HF364J	\$1,568.89	50	125	60	150
400	HF365A	\$3,032.83	HF365RA	\$3,655.02	HF365JA	\$3,800.91	100	250	125	350
600	HF366A	\$5,264.13	HF366RA	\$7,244.12	HF366JA	\$7,428.61	150	400	200	500
800	HF367	\$8,836.98	HF367R	\$10,713.67	HF367J	\$10,465.32	200	500	250	500
1200	HF368	\$11,160.02	HF368R	\$13,182.40	HF368J	\$13,420.48	200	500	250	500
600 Volt Non-Fusible - 3-Pole, 3-Wire										
30	HNF361	\$178.82	HNF361R	\$326.39	HNF361J	\$420.69	—	20	—	30
60	HNF362	\$326.39	HNF362R	\$572.52	HNF362J	\$592.48	—	50	—	60
100	HNF363	\$528.57	HNF363R	\$816.40	HNF363J	\$847.68	—	75	—	100
200	HNF364	\$783.83	HNF364R	\$963.56	HNF364J	\$1,016.79	—	125	—	150
400	HNF365A	\$1,899.99	HNF365RA	\$2,542.04	HNF365JA	\$2,630.90	—	250	—	350
600	HNF366A	\$3,385.32	HNF366RA	\$5,043.40	HNF366JA	\$5,162.93	—	400	—	500
800	HNF367	\$6,425.22	HNF367R	\$8,469.54	HNF367J	\$8,540.04	—	500	—	500
1200	HNF368	\$8,727.25	HNF368R	\$11,066.18	HNF368J	\$11,218.36	—	500	—	500

Additional Product Notes

600V available in NEMA 4X stainless - consult factory.

A Siemens small order handling fee of \$25 will be applied to orders for Siemens products totaling less than \$800.

Definitions

1. Power Devices

- 1.1 MCB:** Main Circuit Breaker
- 1.2 SPD:** Surge Protective Device, to protect the system against transient voltage surges on the AC supply power
- 1.3 CB:** A disconnect means & overcurrent protective device for a supplementary or branch circuit
- 1.4 I/P R:** Input Power Reactor, to protect both the VFD from input power distortion and transients, and the input power grid from VFD generated distortion. Limits short circuit current on the input power side of the VFD systems
- 1.5 VFD:** Variable Frequency Drive, to control speed and torque of the crusher motor, an approved overload device when connected to a single motor
- 1.6 O/P R:** Output reactor, optional on all VFD schemes
- 1.7 EXT. O/L:** External Overload, required for an individual motor load when a single VFD is used for multi motors
- 1.8 RVSS:** Reduced Voltage Soft Start, fixed speed control that limits inrush current and torque on start up during acceleration to base (full) speed
- 1.9 FVNR:** Full Voltage Non-Reversing Starter, fixed speed control to switch 3 phase power to a motor, with approved overload protection
- 1.10 Combination Starter:** The motor controller, VFD, RVSS or FVNR is provided with a coordinated Circuit Breaker
- 1.11 Non-Combination Starter:** Circuit Breaker protection is provided outside the motor controller typically by others

Component Descriptions and Ratings

2. Enclosures

- 2.1 Enclosures:**
 - 2.1.1 VFD Outdoor: Type 3R, filtered positive pressure forced air cooled. Dual thermostat control for enclosure cooling fans and space heater(s)
 - 2.1.2 VFD Indoor: Type 12, filtered positive pressure forced air cooled, thermostat control for enclosure cooling fans
 - 2.1.3 VFD Type 4 Ventilated: Same as Type 12 in 2.1.2, with fan and vent assemblies fitted with type 4 rain hoods
 - 2.1.4 VFD Type 4 & 4X Non-Ventilated: Available on smaller ratings up to 5HP. Larger sizes available only on request
 - 2.1.5 VFD Type 4X: Dust & Water Type and suitable for installation in corrosive environments
 - 2.1.6 RVSS & FVNR: Type 4/12, suitable for installation both indoors or outdoors, non-ventilated, dust tight
- 2.2** Input Circuit Breakers, Main Input Power, type UL489, to be sized per applicable UL and NEC guidelines, lockable door operator mechanisms provided for all main input power breakers. UL489 Branch Circuit Breakers and UL1077 Supplementary Circuit Breakers are coordinated per the installation
- 2.3** SPD: Surge Protective Device, as shown power input sections, wired as close to the power entry as practical, to be rated for surges up to 50kA typical
- 2.4** O/P and I/P Reactors: standard sizing based on connected loads, 3% impedance (Z) (5% optional on input)
- 2.5 Motor Controllers / Starters**
 - 2.5.1 VFDs: Types WDFC, WDGP, WD4X, N700E
200 Volt Class rated for 200-240Vac -10/+10% 3 Phase input supply, -5/+10% 1 Phase input supply
400 Volt Class rated for 380-480Vac -10/+10% 3 Phase input supply, -5/+10% 1 Phase input supply
Output current ratings, Heavy Duty 150% 60 sec. overload capacity, Normal Duty 120% 60 sec. overload capacity
 - 2.5.2 RVSS: Type WSIQ, 208 - 480VAC $\pm 10\%$, 50/60 Hz, heavy duty rated with 450% 30 second overload capacity and 350% overload capacity for 30 seconds
- 2.6 Pilot devices, and Control Circuitry**
 - 2.6.1 Standard AC Control circuits are 120VAC, including CPT, 150 to 750VA (based on system capacity), with primary and secondary circuit breaker protection
 - 2.6.2 24VDC control is supplied typically for HMI supply, external I/O, and for external loop power when required
 - 2.6.3 Relaying, terminals and termination components, switch and light pilot devices integrated per enclosed models

1. **WARRANTY** – WORLDWIDE ELECTRIC CORPORATION (“SELLER”) MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IN RESPECT TO THE PRODUCT AND THERE IS NO WARRANTY EXPRESS OR IMPLIED EXCEPT THAT THE PRODUCT SHALL BE OF THE KIND AND QUALITY DESCRIBED IN THE SPECIFICATIONS.
2. **DELIVERY** – Unless otherwise stated, delivery will be made f.o.b. point of shipment. Shipping dates are approximate and are based on the prompt receipt of all necessary information from the purchaser.
3. **LOSS, DAMAGE OR DELAY** – Seller shall not be liable for loss, damage, detention, or delay resulting from causes beyond its reasonable control or from fire, strike or other concerted action of workmen, act or omission of any Governmental authority or of the Purchaser, insurrection or riot, embargo, car shortage, wreck or delay in transportation, or inability to obtain necessary labor, materials, or manufacturing facilities from usual sources. In the event of delay due to any such cause, the date of delivery will be postponed by such length of time as may be reasonably necessary to compensate for the delay.
4. **RISK OF LOSS** – Risk of loss of the product, or any part of the same, shall pass to the Purchaser upon delivery of such product or part.
5. **PAYMENTS** – If, in the judgment of Seller, the financial condition of the Purchaser at any time prior to shipment, does not support the terms of payment specified, Seller may require full or partial payment in advance. Pro-rata payments shall become due as shipments are made. If shipments are delayed by the Purchaser, payments shall become due from date when Seller is prepared to make shipment. If manufacture is delayed by the Purchaser, payment shall be made based on the contract price and percent of completion. Products held for Purchaser shall be at the risk and expense of the Purchaser.
6. **PAYMENT BY CREDIT CARD** – If Seller accepts payment by credit card, Purchaser agrees to pay the issuer of the credit card the total amount shown on this invoice upon presentation of a bill, without offset or deduction.
7. **PRICES** – Prices are those in effect at time of shipment. In the event of a published increase or reduction in prices by Seller, the new price will become effective immediately on the unshipped portion of the order, unless stated at the time of the change. In no case, however, will a reduction in price be retroactive to shipments made prior to the date of the price change. Purchaser’s order will be entered promptly upon acceptance by Seller and will not thereafter be subject to Cancellation nor to Deferment of Deliveries without Seller’s written consent, except upon terms which take into proper account the work already done and commitments made by Seller. Prices include the Seller’s standard packing for domestic shipments.
8. **LIMITATION OF LIABILITY** – In no event shall Seller be liable for any special, indirect, incidental, consequential or punitive damages, including but not limited to damages for lost profits or business opportunities or damage to reputation. Seller’s maximum liability for any breach of contract or sale, or any other claim related to the product sold hereunder, shall be limited to the price of the product, or portion thereof, on which such liability is based.
9. **GOVERNING LAW/JURISDICTION/VENUE** – This sale shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflicts of laws principles, and shall be deemed entered into at Seller’s principal place of business in New York. By purchasing Seller’s product, Purchaser expressly consents, for any litigation arising out of or related to the sale, to the exclusive jurisdiction and venue of the courts of competent jurisdiction located in Monroe County, New York (i.e., the U.S. District Court, Western District of New York, and the New York State Supreme Court, County of Monroe) and waives the right and hereby agrees not to assert, by way of motion, defense or otherwise in any proceeding brought in either of such courts, any claim that it is not subject to the personal jurisdiction of such court, that such proceeding is brought in an inconvenient forum, or that the venue of such proceeding is improper.
10. **TERMINATION** – Any order or contract may be terminated by the Purchaser only upon payment of reasonable charges based upon expenses already incurred and commitments made by Seller.
11. **RETURN OF GOODS** – No product or part shall be returned to the Seller without written authorization and shipping instructions first having been obtained from the Seller. Returns may be subject to freight charge and/or restocking charge, as circumstances dictate.
12. **REPAIR POLICY** – Positively no allowance will be made for repairs if made by others without Seller’s written consent.
13. **NO ASSIGNMENT** – Purchaser’s obligations are not transferable or assignable by operation of law, change of control or ownership, or otherwise, without prior written consent of Seller.

Activity	Description	Rate / Fee
Inspection Fee	Fee will be credited if warrantable defect is found.	\$150
In-House	Non-Warranty equipment sent to WWE for repair/service.	\$75 Per Hour
Field Service-Domestic (Four (4) Hour Minimum)	Monday-Friday: 7:00 am - 6:00 pm (Four (4) Hour Minimum)	\$150 Per Hour
Field Programming-Domestic (Four (4) Hour Minimum)	Monday-Friday: 7:00 am - 6:00 pm (Four (4) Hour Minimum)	\$225 Per Hour
International Rates (Four (4) Hour Minimum)	Monday-Friday: 7:00 am - 6:00 pm (Four (4) Hour Minimum)	1.5 x Base Rate Domestic
Overtime-Standard Applicable to both Domestic/International rates	Monday-Friday: Prior to 7:00 am or beyond 6:00 pm Saturday: Not to exceed 8 hours Total time not to exceed 8 hours/day	1.5 x Base Rate Domestic/International
Overtime-Premium Applicable to both Domestic/International rates	Sunday/Holiday: All hours worked Monday-Saturday: Overtime in excess of 8 hours	2 x Base Rate Domestic/International
Travel / Living Expenses	Billed at cost plus fee and include, but are not limited to: Airfare, car rental, lodging, meals, etc.	7% Processing/Handling
Auto Travel	Covers round trip use of company or personal cars.	\$0.85 Per Mile
Travel Time	Billed for service technician travel time	50% Applicable Rate

Notes

- Travel Time:** Travel time is invoiced based on actual hours traveled. Any travel time in excess of 8 hours (portal to portal) or after business hours will be billed at 1.5 times normal travel rate.
- Scheduling Service:** Customers shall notify WWE as early as possible (two (2) week minimum) to schedule field service. Any notice shorter than Two (2) weeks may be subject to a \$500 emergency fee. Time is subject to availability.
- Purchase Order:** A purchase order from the customer for the estimated amount of service from WWE's Service Department must be received and confirmed before travel is booked.
- Payment:** Net 30 days from date of invoice.
- International Air Travel:** All international air travel will be billed at the minimum business class rates.
- Transportation:** When language, local driving customs, remote job site locations or other safety considerations make driving hazardous, the customer will be responsible for providing secure transportation to and from the job site.
- Standby Time:** Any time up to eight (8) hours per day during which WWE's Service Engineer is available for work, but is not working because of circumstances beyond WWE's control. Each hour of standby time will be billed at the applicable rate. WWE's Service Engineer need not be present at the job site to accrue standby time.
- Cancellation / Postponement:** Any field service canceled or postponed within ten (10) business days of scheduled service shall be billed for an eight (8) hour day at the normal field service rate. Any expenses incurred by WWE due to cancellation or postponement (airfare and lodging cancellation/change fees, visas, work permits, miscellaneous items acquired, etc.) shall be billed at actual cost plus 10%.

Other Fees

- Siemens Small Order Handling Fee:** Per the manufacturer's policy, a \$25 Small Order Handling Fee will be applied to orders for Siemens products totaling less than \$800.

WorldWide Electric Corporation (The Company) warrants its products to be free from defects in materials or workmanship to the original purchaser for a period of:

PRODUCT WARRANTIES	
HUBBELL PRODUCTS	
HUBBELL - Pressure Switches	One (1) year from date of sale (invoice) with ARC code
HUBBELL - Alternator Relays	One (1) year from date of sale (invoice)
HUBBELL - Drum Controls	One (1) year from date of sale (invoice)
HYUNDAI PRODUCTS	
HYUNDAI - Variable Frequency Drives	Two (2) years from date of sale (invoice)
SIEMENS PRODUCTS	
SIEMENS - NEMA and IEC Controls	One (1) year from date of sale (invoice)
WORLDWIDE ELECTRIC (WWE) PRODUCTS	
WWE - Soft Starters	Two (2) years from date of sale (invoice)
WWE - Variable Frequency Drives (VFD)	Two (2) years from date of sale (invoice)
WWE - Starters, Contactors, Pressure Switches	One (1) year from date of sale (invoice)

For this warranty to be effective, this product must be installed, used and maintained by the original purchaser in accordance with good industry standards. The warranty does not cover normal wear, tear and erosion from use, misuse, abuse or corrosion.

In the event of failure, it shall be the responsibility of the original purchaser to notify The Company either in writing or by telephone to make arrangements for the correction of the problem. The purchaser shall be responsible for transportation charges connected with the return, exchange or repair of parts. Returns found defective upon inspection by our warranty department or authorized warranty service agent will be replaced free of charge.

The Company shall not be liable for any labor cost connected with the replacement of the equipment, the replacement of the parts or adjustments to the equipment by the purchaser or their contractor without The Company's prior written approval.

The Company, as the exclusive remedy under this warranty, shall, at it's option, repair or replace defective items or, if agreed upon, refund the purchase price less reasonable allowance for depreciation in exchange for the product.

THE COMPANY MAKES NO OTHER WARRANTIES AND ALL IMPLIED OR EXPRESSED WARRANTIES AND REPRESENTATIONS, EXCEPT THAT OF TITLE, ARE DISCLAIMED. ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE BUT NOT LIMITED TO JUST THOSE THAT ARE DISCLAIMED. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES AND LOSSES UNDER ANY AND ALL WARRANTIES WHETHER IN CONTRACT, TORT OR OTHERWISE, ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

All qualified returns will be subject to a 20% restocking fee (\$50 minimum).

All special order / special build products are non-cancellable and non-returnable.

Freight terms are as follows on all orders shipped from any of our warehouses. All products can be assorted from all three divisions; motors, controls and gearing.

FedEx / UPS will be utilized for shipments under 100 lbs. and billed on a prepaid and add basis (excluding cast iron motors and gear reducer products). Customers may always choose to have their shipment sent freight collect.

DISCOUNT CODE: MC1 / MC1A	
\$5,000 +	Truck - Prepaid and Allowed
\$1,000 - \$4,999	Truck - 10% of Invoice - Prepaid and Add
\$0 - \$999	Truck - \$100 Minimum - Prepaid and Add
DISCOUNT CODE: MC2	
\$2000 + Assorted	Prepaid and Allowed

Orders may be picked up from any of our warehouses as a will call. We would prefer a one-hour advance notification for orders to be picked up. However, allowances will be made for special rush and urgent situations.

ADDITIONAL FREIGHT SERVICES	
Delivery Appointment	\$65.00
Liftgate Delivery	\$200.00
Residential Delivery	\$125.00
Expedited Delivery	Please Call For Quote



ADDITIONAL PRODUCTS FROM WORLDWIDE ELECTRIC

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 - The Ultimate
 - The Eliminator
- ☐ Worm Gear Reducers
 - Cast Iron
 - Aluminum
 - Stainless Steel
- ☐ Inline Helical Reducers
 - WINL Line
- ☐ Helical-Bevel Reducers
 - KAN & KHN Lines



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 - Explosion Proof
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2020-2021

Motor Control Products Catalog

Catalog ID MC-PS-EDVP0220.R01



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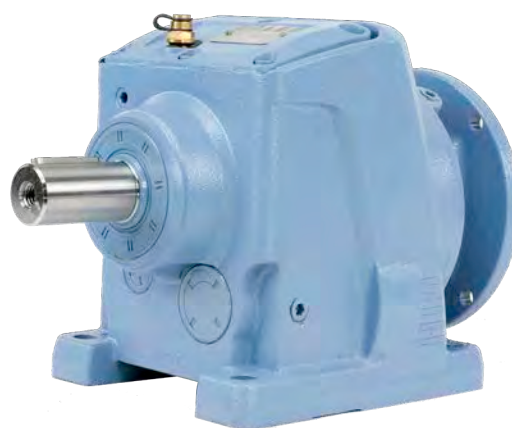
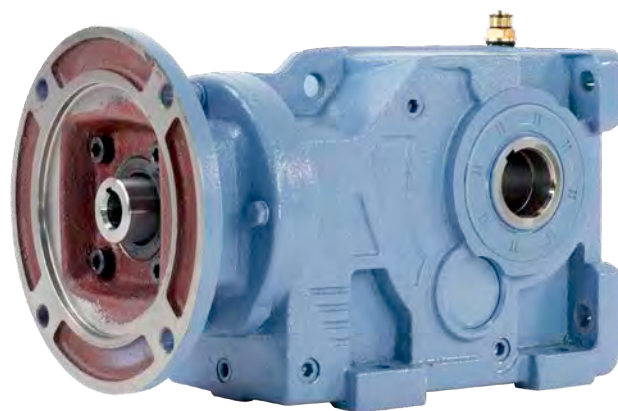
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GEAR
REDUCERS



Gear Reducers

Stock Products Catalog

2020-2021

WorldWide Electric's complete line of Worm Gear, Inline, Helical, Bevel, and Shaft Mount Reducers





WorldWide Electric Gear Reducers

Proven, reliable designs

WorldWide Electric's line of Gear Reducers includes Worm Gear Reducers, Shaft Mount Reducers, Inline Helical Reducers, and our new KAN and KHN series Helical-Bevel Reducers. Reduce speed, increase torque, and maintain exceptional efficiency and performance with our field-tested and industry proven Gear Reducers.

WorldWide Electric has been in the motor business for two decades, providing reliable and affordable electric motors, gear reducers, and motor controls. We continue to meet the needs of the most unique applications and strive to have the best customer service in the industry.

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Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer

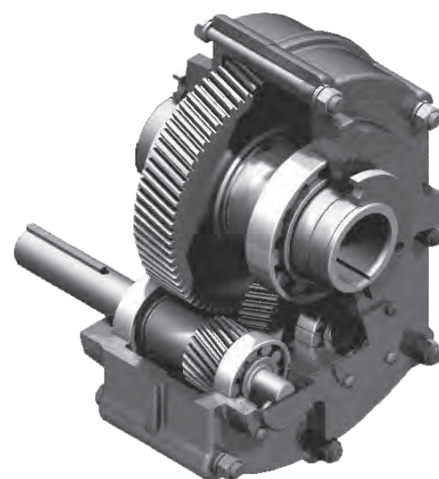
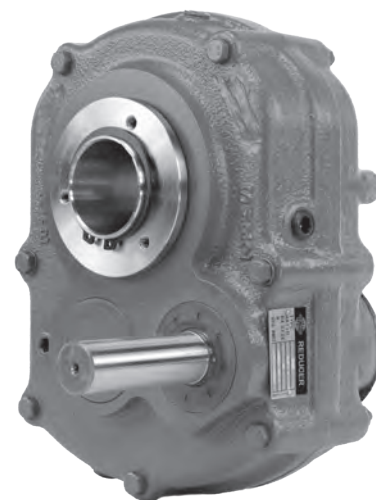


Original SMR Series Reducers: Overview

Product Specifications

- » 15:1 and 25:1 ratios
- » Box sizes 2 - 10
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » 2 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	15:1 25:1	1 15/16"	58	SMR2-15/1 SMR2-25/1	\$1,007.78
3	15:1 25:1	2 3/16"	98	SMR3-15/1 SMR3-25/1	\$1,790.06
4	15:1 25:1	2 7/16"	139	SMR4-15/1 SMR4-25/1	\$ 2,421.15
5	15:1 25:1	2 15/16"	207	SMR5-15/1 SMR5-25/1	\$3,636.12
6	15:1 25:1	3 7/16"	285	SMR6-15/1 SMR6-25/1	\$4,751.11
7	15:1 25:1	3 15/16"	462	SMR7-15/1 SMR7-25/1	\$7,581.86
8	15:1 25:1	4 7/16"	633	SMR8-15/1 SMR8-25/1	\$12,891.59
9	15:1 25:1	4 15/16"	760	SMR9-15/1 SMR9-25/1	\$16,909.29
10	15:1 25:1	5 7/16"	882	SMR10-15/1 SMR10-25/1	\$27,819.60



SMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size	Output Speed (RPM)										
		10	20	30	50	80	100	120	140	160	180	200
2	1 7/16	2000	1510	1270	1010	840	820	720	720	710	710	700
	1 15/16	1750	1320	1110	890	730	710	630	630	620	620	610
3	1 15/16	5400	4250	3680	3050	2620	2440	2310	2210	2110	2040	1980
	2 3/16	5240	4120	3570	2960	2540	2370	2240	2140	2050	1980	1920
4	2 3/16	6520	5180	4510	3800	3230	3000	2830	2710	2600	2510	2430
	2 7/16	6360	5060	4410	3710	3160	2930	2770	2640	2530	2450	2370
5	2 7/16	7460	5860	5080	4280	3690	3450	3270	3110	2980	2880	2790
	2 15/16	7060	5540	4800	4040	3490	3260	3090	2940	2820	2720	2640
6	2 15/16	9100	7100	6100	5000	4100	4050	3700	3550	3400	3300	3200
	3 7/16	8200	6400	5500	4500	3700	3650	3400	3300	3250	3200	3150
7	3 7/16	11400	9500	7300	5950	4750	5050	4500	4300	4250	4200	4150

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



Original SMR Series Reducers: Mechanical Ratings

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR2-15/1	2	18-32	6700-3769	1.5	19-34	4761-2660	1.5	27-51	3350-1774
	3	27-51	6700-3547	2	25-47	4824-2566	2	37-71	3260-1699
	5	71-85	4247-3547	3	39-75	4639-2412	3	58-113	3119-1601
	7.5	75-140	6030-3230	5	70-136	4307-2217	5	104-140	2899-2154
	10	104-140	5798-4307	7.5	111-140	4074-3230	—	—	—
SMR2-25/1	0.5	4-6	7538-5025	0.33	4-6	5025-3350	0.25	4-6	3769-2513
	0.75	6-10	7538-4523	0.5	6-9	5025-3350	0.33	5-9	4020-2233
	1	8-15	7538-4020	0.75	9-16	5025-2827	0.5	8-15	3769-2010
	1.5	13-23	6958-3933	1	12-22	5025-2741	0.75	13-23	3479-1966
	2	18-32	6700-3769	1.5	19-34	4761-2660	1	18-32	3350-1884
	3	27-51	6700-3547	2	25-47	4824-2566	1.5	27-51	3350-1774
	5	47-70	6415-4307	3	39-75	4639-2412	2	37-71	3260-1699
SMR3-15/1	7.5	75-85	6030-5321	5	70-85	4307-3547	3	58-85	3119-2128
	5	27-46	11167-6555	2	15-24	8040-5025	2	22-36	5482-3350
	7.5	41-74	11031-6112	3	23-38	7865-4761	3	33-57	5482-3174
	10	57-103	10579-5855	5	38-69	7934-4370	5	57-103	5290-2927
	15	94-140	9623-6461	7.5	60-110	7538-4111	7.5	94-140	4811-3230
SMR3-25/1	—	—	—	10	85-140	7094-4307	—	—	—
	0.75	4-5	11307-9045	0.5	4-5	7538-6030	0.5	6-7	5025-4307
	1	6-7	10050-8615	0.75	6-8	7538-5653	0.75	8-12	5653-3769
	1.5	8-12	11307-7538	1	8-11	7538-5482	1	11-17	5482-3547
	2	11-17	10964-7094	1.5	12-18	7538-5025	1.5	16-26	5653-3479
	3	16-26	11307-6958	2	15-24	8040-5025	2	22-36	5482-3350
	5	27-46	11167-6555	3	23-38	7865-4761	3	33-57	5482-3174
	7.5	41-74	11031-6112	5	38-69	7934-4370	5	57-85	5290-3547
SMR4-15/1	10	57-85	10579-7094	7.5	60-85	7538-5321	—	—	—
	5	18-26	16750-11596	3	15-22	12060-8223	3	21-32	8615-5653
	7.5	27-40	16750-11307	5	25-37	12060-8149	5	37-56	8149-5384
	10	37-56	16298-10768	7.5	39-59	11596-7665	7.5	57-93	7934-4863
	15	57-93	15869-9726	10	53-84	11378-7179	10	79-141	7633-4277
	20	79-140	15266-8615	15	83-140	10898-6461	—	—	—
SMR4-25/1	25	102-140	14780-10768	—	—	—	—	—	—
	1	4-5	15075-12060	0.75	4-5	11307-9045	0.5	4-5	7538-6030
	1.5	5-7	18091-12922	1	5-7	12060-8515	0.75	5-7	9045-6461
	2	7-10	17229-12060	1.5	7-11	12922-8223	1	7-10	8615-6030
	3	11-15	16446-12060	2	10-14	12060-8615	1.5	11-15	8223-6030
	5	18-26	16750-11596	3	15-22	12060-8223	2	14-21	8615-5743
	7.5	27-40	16750-11307	5	25-37	12060-8149	3	21-32	8615-5653
	10	37-56	16298-10768	7.5	39-59	11596-7665	5	37-56	8149-5384
	15	57-85	15869-10641	10	53-84	11378-7179	7.5	57-85	7934-5321
SMR5-15/1	20	79-85	15266-14189	—	—	—	—	—	—
	10	21-36	28715-16750	7.5	22-38	20557-11902	5	21-36	14358-8375
	15	33-56	27410-16152	10	30-52	20101-11596	7.5	33-56	13705-8076
	20	46-78	26218-15462	15	48-82	118844-11031	10	46-78	13109-7731
	25	60-101	25126-14926	20	69-117	17479-10308	15	76-125	11902-7236
	30	76-125	23803-14472	25	95-125	15869-12060	20	115-125	10487-9648
	40	115-125	20975-19297	—	—	—	—	—	—

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



Original SMR Series Reducers: Mechanical Ratings (Cont)

1
THE ORIGINAL
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR5-25/1	1.5	4	22613	1.5	5-6	18091-15075	0.75	4	11307
	2	4-6	30151-20101	2	6-9	20101-13400	1	4-6	15075-10050
	3	6-10	30151-18091	3	9-14	20101-12922	1.5	6-10	15075-9045
	5	10-17	30151-17736	5	15-24	20101-12563	2	8-13	15075-9277
	7.5	16-26	28266-17395	7.5	22-38	20557-11902	3	13-20	13916-9045
	10	21-36	28715-16750	10	30-52	20101-11596	5	21-36	14358-8375
	15	33-56	27410-16152	15	48-82	18844-11031	7.5	33-56	13705-8076
	20	46-78	26218-15462	20	69-80	17479-15075	10	46-78	13109-7731
SMR6-15/1	25	60-80	25126-18844	—	—	—	—	—	—
	15	20-32	45226-28266	10	19-29	31738-20794	7.5	20-32	22613-14133
	20	27-45	44668-26801	15	28-47	32304-19245	10	27-45	22334-13400
	25	34-59	44339-25552	20	39-68	30924-17736	15	42-75	21536-12060
	30	42-75	43073-24121	25	50-94	30151-16038	20	58-114	20794-10579
SMR6-25/1	40	58-114	41587-21158	30	61-125	29657-14472	25	75-125	20101-12060
	50	75-125	40201-24121	40	89-120	27102-20101	30	99-125	18276-14472
	3	4-5	45226-36181	2	4-5	30151-24121	1.5	4-5	22613-18091
	5	7-9	43073-33501	3	6-8	30151-22613	2	5-7	24121-17229
	7.5	10-15	45226-30151	5	9-14	33501-21536	3	8-12	22613-15075
	10	13-20	46386-30151	7.5	14-21	32304-21536	5	13-20	23193-15075
	15	20-32	45226-28266	10	19-29	31738-20794	7.5	20-32	22613-14133
	20	27-45	44668-26801	15	28-47	32304-19245	10	27-45	22334-13400
SMR7-15/1	25	34-59	44339-25552	20	39-68	30924-17736	15	42-75	21536-12060
	30	42-75	43073-24121	25	50-80	30151-18844	20	58-70	20794-17229
	40	58-81	41587-29779	30	61-76	29657-23803	—	—	—
	20	19-26	63480-46392	20	27-38	44664-31740	10	19-26	31740-23196
	25	24-33	62820-45684	25	34-49	44340-30768	15	29-41	31188-22056
	30	29-41	62388-44124	30	42-60	43068-30156	20	39-57	30924-21156
SMR7-25/1	40	39-57	61848-42312	40	57-88	42312-27408	25	50-74	30156-20376
	50	50-74	60300-40740	—	—	—	30	61-98	29652-18456
	—	—	—	—	—	—	40	85-89	28380-27108
	5	5-6	60300-50256	3	4-5	45228-36180	3	6-7	30156-25848
	7.5	7-9	64608-50256	5	7-8	43068-37692	5	9-12	33504-25128
	10	9-12	67008-50256	7.5	10-13	45228-34788	7.5	14-19	32304-23808
	15	14-19	64608-47604	10	13-18	46392-33504	10	19-26	31740-23196
	20	19-26	63480-46392	15	20-27	45228-33504	15	29-41	31188-22056
SMR8-15/1	25	24-33	62820-45684	20	27-38	44664-31740	20	39-57	30924-21156
	30	29-41	62388-44124	25	34-49	44340-30768	25	50-74	30156-20376
	40	39-57	61848-42312	30	42-60	43068-30156	30	61-70	29652-25848
	50	50-74	60300-40740	40	57-75	42312-32160	—	—	—
	30	20-28	90456-64608	25	23-33	65544-45684	15	20-28	45228-32304
	40	26-38	92772-63480	30	28-41	64608-44124	20	26-38	46392-31740
	50	33-49	91368-61536	40	37-56	65196-43068	25	33-49	45684-30768
	60	40-60	90456-60300	50	47-72	64152-41880	30	40-60	45228-30156
	75	51-70	88680-64608	60	57-89	63480-40656	40	54-84	44664-28716
	—	—	—	75	74-75	61116-60300	50	70-110	43068-27408
	—	—	—	—	—	—	60	86-115	42072-31464

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Original Shaft Mount Reducer



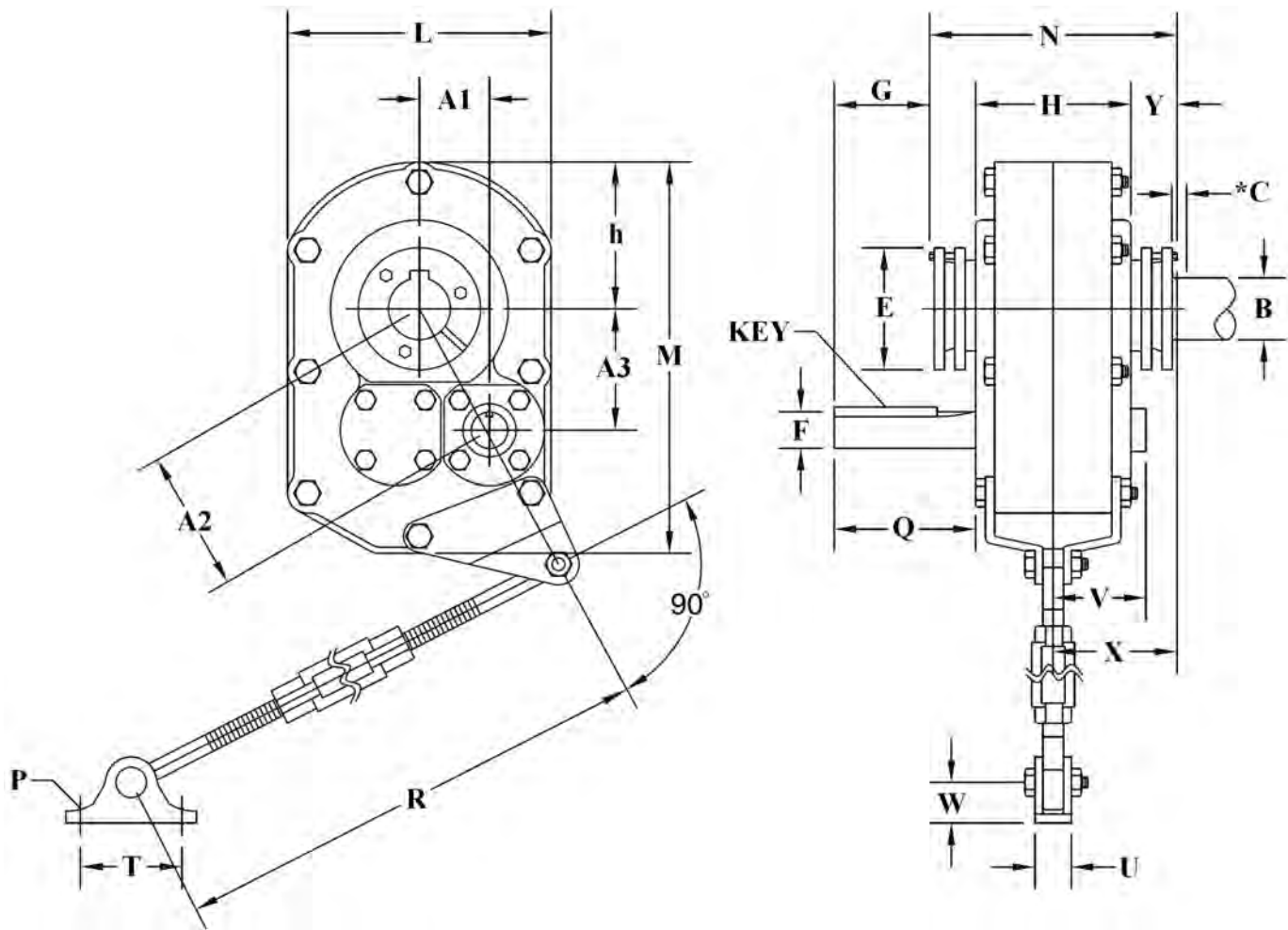
Original SMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SMR8-25/1	7.5	4-6	113064-75384	5	4-6	75384-50256	3	4-5	45228-36180
	10	6-8	100500-75384	7.5	6-9	75384-50256	5	6-8	50256-37692
	15	9-13	100500-69576	10	8-12	75384-50256	7.5	9-13	50256-34788
	20	13-18	92772-67008	15	13-19	69576-47604	10	13-18	46392-33504
	25	16-23	94224-65544	20	18-26	67008-46392	15	20-28	45228-32304
	30	20-28	90456-64608	25	23-33	65544-45684	20	26-38	46392-31740
	40	26-38	92772-63480	30	28-41	64608-44124	25	33-49	45684-30768
	50	33-49	91368-61536	40	37-56	65196-43068	30	40-60	45228-30156
	60	40-60	90456-60300	50	47-72	64152-41880	40	54-70	44664-34464
	75	51-70	88680-64608	60	57-75	63480-48240	50	70-75	43068-40200
SMR9-15/1	—	—	—	75	74-75	61116-60300	—	—	—
	40	19-25	126948-96480	30	20-27	90456-67008	20	19-25	63480-48240
	50	23-32	131088-94224	40	26-36	92772-67008	25	23-32	65544-47112
	60	28-39	129216-92772	50	33-46	91368-65544	30	28-39	64608-46392
	75	35-50	129216-90456	60	40-56	90456-64608	40	38-53	63480-45516
	—	—	—	75	50-73	90456-61956	50	47-69	64152-43692
SMR9-25/1	—	—	—	—	—	—	60	57-85	63480-42564
	10	5	120600	7.5	5	90456	5	5	60300
	15	7-8	129216-113064	10	6-7	100500-86148	7.5	7-8	64608-56532
	20	9-12	134004-100500	15	10-12	90456-75384	10	9-12	67008-50256
	25	11-15	137052-100500	20	13-17	92772-70944	15	14-19	64608-47604
	30	14-19	129216-95220	25	16-22	94224-68520	20	19-25	63480-48240
	40	19-25	126948-96480	30	20-27	90456-67008	25	23-32	65544-47112
	50	23-32	131088-94224	40	26-36	92772-67008	30	28-39	64608-46392
	60	28-39	129216-92772	50	33-46	91368-65544	40	38-53	63480-45516
	75	35-50	129216-90456	60	40-56	90456-64608	50	47-69	64152-43692
SMR10-15/1	—	—	—	75	50-73	90456-61956	60	57-75	63480-48240
	60	19-27	189075-133053	50	22-32	136077-93553	30	19-27	94538-66526
	75	24-34	187105-132074	60	27-39	133053-92113	40	26-37	92113-64728
	100	32-46	187105-130160	75	34-49	132074-91643	50	32-46	93553-65080
	125	41-59	182542-126851	100	46-67	130160-89364	60	39-56	92113-64150
	150	50-70	179621-128301	125	76-85	98477-88050	75	50-72	89811-62368
SMR10-25/1	—	—	—	—	—	—	100	59-120	10148-49895
	15	5-6	179621-149684	10	5	119748	7.5	5-6	89811-74842
	20	7-8	171068-149684	15	7-9	128301-99790	10	7-8	85534-74842
	25	8-10	187105-149684	20	9-12	133053-99790	15	10-13	89811-69085
	30	10-13	179621-138170	25	11-15	136077-99790	20	13-18	92113-65526
	40	13-18	184227-133053	30	13-19	138170-94538	25	16-22	93553-68038
	50	16-22	187105-136077	40	18-25	133053-95798	30	19-27	94538-66526
	60	19-27	189075-133053	50	22-32	136077-93553	40	26-37	92113-64728
	75	24-34	187105-132074	60	27-39	133053-92113	50	32-46	93553-65080
	100	32-46	187105-130160	75	34-49	132074-91643	60	39-56	92113-64150
	125	41-59	182542-126851	100	46-67	130160-89364	75	50-72	89811-62368
	150	50-70	179621-128301	125	59-75	126851-99790	—	—	—

* All output torque ratings listed in inch-pounds

Original SMR Series Reducers: Drawings and Dimensions

1
THE ORIGINAL
SHAFT MOUNT REDUCER



All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.38	7.32	1.125	1 15/16	1.25	4.06	1.06	3.68	3.59	4.56	2.14	3.75	26.94	0.44
	11.41		0.25 x 0.125 x 2.50			2.22	1.25	2.89	1.4		4.32	4.09	32.94	3
3	9.25	9.22	1.25	2 3/16	1.5	4.38	1.06	4.52	4.34	5.63	2.33	4.17	26.94	0.44
	12.88		0.25 x 0.125 x 2.875			2.34	1.25	3.3	1.59		4.78	4.84	32.94	3
4	10.38	9.98	1.4375	2 7/16	1.75	4.81	1.75	4.79	5.57	6.13	2.76	4.79	29.19	0.55
	15.13		0.375 x 0.1875 x 4.06			3.44	1.44	3.41	1.72		5.53	5.5	35.19	4
5	13.13	10.52	1.9375	2 15/16	1.81	5.63	1.75	5.05	5.74	6.31	3.04	5.67	29.19	0.5
	18.31		0.50 x 0.25 x 4.50			3.44	1.44	4.45	1.91		6.43	6.56	35.19	4
6	15.13	11.53	2.1875	3 7/16	1.81	6.13	2	5.73	6.08	6.88	4.09	6.71	29.19	0.63
	21.31		0.50 x 0.25 x 4.50			3.73	2.75	4.57	2.3		7.88	7.56	35.19	4.75
7	18.75	12.85	2.4375	3 15/16	2.06	7.25	2	6.38	6.35	7.75	5.11	8.3	29.44	0.63
	25.94		0.625 x 0.312 x 4.75			3.75	2.75	4.69	2.5		9.74	9.38	35.44	4.75
8	20.25	14.03	2.4375	4 7/16	2.06	7.75	3.13	7.04	7.11	8.37	6.03	9.5	30	0.75
	28.25		0.625 x 0.312 x 5.375			4.31	4	5.85	2.86		11.25	10.13	36	7
9	22.63	14.12	2.4375	4 15/16	2.44	8.75	3.13	7.04	9.65	8.12	6.59	10.81	30	0.75
	31.69		0.625 x 0.312 x 7.75			6.63	4	5.66	2.98		12.66	11.31	36	7
10	25.50	15.63	2.6875	5 7/16	2.5	10.04	3.15	7.83	9.10	9.49	6.58	12.50	30	0.75
	35.00		0.625 x 0.312 x 7.875			6.53	4	6.91	3.07		14.13	12.75	36	7.09

Dimensions shown in this catalog are for general use only.
 For an exact drawing on a specific rating, please contact our sales office.

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer

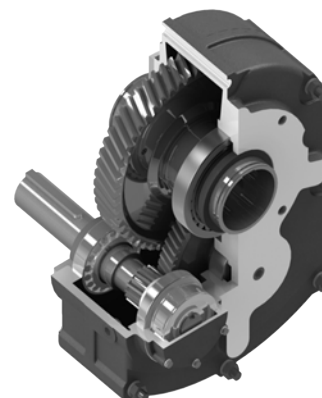


Eliminator SCSMR Series Reducers: Overview

Product Specifications

- » 9:1, 15:1, 25:1 ratios
- » Box sizes 2 - 10
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » 2 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	9:1	1-15/16"	68	SCSMR2-9/1	\$1,007.78
	15:1			SCSMR2-15/1	\$1,007.78
	25:1			SCSMR2-25/1	\$1,007.78
3	9:1	2-3/16"	106	SCSMR3-9/1	\$1,790.06
	15:1			SCSMR3-15/1	\$1,790.06
	25:1			SCSMR3-25/1	\$1,790.06
4	9:1	2-7/16"	156	SCSMR4-9/1	\$2,421.15
	15:1			SCSMR4-15/1	\$2,421.15
	25:1			SCSMR4-25/1	\$2,421.15
5	9:1	2-15/16"	204	SCSMR5-9/1	\$3,636.12
	15:1			SCSMR5-15/1	\$3,636.12
	25:1			SCSMR5-25/1	\$3,636.12
6	9:1	3-7/16"	314	SCSMR6-9/1	\$4,751.11
	15:1			SCSMR6-15/1	\$4,751.11
	25:1			SCSMR6-25/1	\$4,751.11
7	15:1	3-15/16"	487	SCSMR7-15/1	\$7,581.86
	25:1			SCSMR7-25/1	\$7,581.86
8	15:1	4-7/16"	655	SCSMR8-15/1	\$12,891.59
	25:1			SCSMR8-25/1	\$12,891.59
9	15:1	4-15/16"	783	SCSMR9-15/1	\$16,909.29
	25:1			SCSMR9-25/1	\$16,909.29
10	15:1	5-7/16"	882	SCSMR10-15/1	\$27,819.60
	25:1			SCSMR10-25/1	\$27,819.60



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THE ELIMINATOR
SHAFT MOUNT REDUCER

SCSMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size (inches)	Output Speed (RPM)									
		10	20	30	40	50	60	80	100	120	140
2	1 7/16	2416	1918	1675	1522	1413	1330	1208	1121	1055	1003
	1 15/16	2202	1748	1527	1387	1288	1212	1101	1022	962	914
3	1 15/16	4336	3520	3120	2856	2672	2536	2320	2176	2056	1960
	2 3/16	4176	3392	3008	2760	2576	2440	2240	2096	1984	1896
4	2 3/16	6024	4896	4336	3976	3720	3520	3232	3016	2856	2728
	2 7/16	5832	4736	4192	3848	3600	3408	32158	2920	2768	2640
5	2 7/16	6272	5096	4512	4136	3872	3664	3360	144	2976	2840
	2 15/16	5928	4816	4264	3912	3656	3464	3176	2968	2816	2688
6	2 15/16	7408	6016	5328	4888	4568	4328	3968	3712	3512	3360
	3 7/16	7064	5736	5080	4664	4360	4128	3784	3544	3352	3200
7	3 7/16	5968	4848	4296	3936	3688	3488	3200	2992	2832	2704
	3 15/16	5736	4656	4120	3784	3536	3352	3072	2872	2720	2600
8	3 15/16	7472	6072	5376	4928	4608	4368	4008	3744	3544	3384
	4 7/16	7208	5826	5184	4760	4448	4208	3864	3616	3424	3264
9	4 7/16	9032	7336	6496	5960	5576	5272	4840	4528	4288	4088
	4 15/16	8744	7104	6288	5768	5400	5112	4688	4384	4152	3960
10	5 7/16	11134	8161	7588	7181	6828	6607	6145	5881	5660	-

Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings

1
THE ELIMINATOR
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR2-9/1	7.5	85-105	5035-4076	5	85-105	3357-2717	3	85-100	2014-1712
	10	105-150	5435-3804	7.5	110-150	3891-2853	5	105-150	2717-1902
	15	160-200	5350-4280	10	150-200	3804-2853	7.5	160-200	2675-2140
SCSMR2-15/1	2	16-24	7065-4710	1.5	18-24	4710-3532	1.5	26-34	3261-2493
	3	26-45	6521-3768	2	24-34	4710-3324	2	38-58	2975-1949
	5	46-74	6143-3819	3	38-70	4462-2422	3	58-100	2923-1695
	7.5	78-105	5434-4037	5	70-105	4037-2691	5	105-140	2691-2018
	10	105-140	5382-4037	7.5	110-140	3853-3028	-	-	-
SCSMR2-25/1	0.5	4-6	7065-4710	0.33	4-5	4663-3730	0.25	4-5	3532-2826
	0.75	6-8	7065-5298	0.5	6-8	4710-3532	0.33	6-8	3108-2331
	1	8-10	7065-5652	0.75	8-12	5298-3532	0.5	8-12	3532-2355
	1.5	12-16	7065-5298	1	12-16	4710-3532	0.75	12-16	3532-2649
	2	16-24	7065-4710	1.5	18-24	4710-3532	1	16-24	3532-2355
	3	26-45	6521-3768	2	24-34	4710-3324	1.5	26-34	3261-2493
	5	46-74	6143-3819	3	38-70	4462-2422	2	38-58	2975-1949
	7.5	78-85	5434-4987	5	70-85	4037-3324	3	58-85	2923-1995
SCSMR3-9/1	10	85-105	6714-5435	7.5	85-105	5035-4076	5	85-105	3357-2717
	15	110-140	7782-6114	10	100-140	5707-4076	7.5	110-140	3891-3057
	20	150-200	7609-5707	15	150-200	5707-4280	10	150-200	3804-2853
SCSMR3-15/1	3	28-30	6055-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-105	3819-2691
	10	78-105	7246-5382	7.5	78-105	5434-4037	7.5	110-140	3853-3028
	15	110-140	7707-6055	10	100-140	5652-4037	-	-	-
SCSMR3-25/1	0.75	4-5	10597-8477	0.5	4-5	7065-5652	0.5	6-7	4710-4037
	1	6-7	9419-8074	0.75	6-7	7065-6055	0.75	8-10	5298-4239
	1.5	8-10	10597-8477	1	8-10	7065-5652	1	10-16	5652-3532
	2	12-16	9419-7065	1.5	12-16	7065-5298	1.5	18-24	4710-3532
	3	18-30	9419-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-85	3819-3324
	10	78-85	7246-6649	7.5	78-85	5434-4987	-	-	-
SCSMR4-9/1	20	85-105	13427-10870	15	85-115	10071-7443	10	85-115	6714-4962
	25	100-135	14267-10568	20	110-150	10376-7609	15	120-150	7133-5707
	30	120-160	14267-10700	25	140-190	10190-7509	20	160-200	7133-5707
	40	160-200	14267-11413	30	170-200	10700-8560	-	-	-
SCSMR4-15/1	5	18-24	15699-11774	3	14-22	12111-7707	3	20-34	8477-4987
	7.5	26-34	16303-12467	5	24-34	11774-8311	5	38-54	7436-5233
	10	38-54	14873-10466	7.5	38-54	11154-7849	7.5	58-80	7308-5298
	15	58-80	14616-10597	10	54-80	10466-7065	10	80-140	7065-4037
	20	80-110	14219-10276	15	85-115	9973-7372	-	-	-
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-
SCSMR4-25/1	1	4-5	14129-11303	0.75	4-5	10597-8477	0.5	4-5	7065-5652
	1.5	5-7	16955-12111	1	5-6	11303-9419	0.75	5-6	8477-7065
	2	6-8	18839-14129	1.5	6-8	14129-10597	1	6-8	9419-7065
	3	10-14	16955-12111	2	10-12	11303-9419	1.5	10-12	8477-7065
	5	16-24	17661-11774	3	14-22	12111-7707	2	14-18	8074-6280
	7.5	26-34	16303-12467	5	24-34	11774-8311	3	20-34	8477-4987
	10	38-54	14873-10466	7.5	38-54	11154-7849	5	38-54	7436-5233
	15	58-80	14616-10597	10	54-85	10466-6649	7.5	58-85	7308-4987
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-

* All output torque ratings listed in inch-pounds

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Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR5-9/1	25	78-95	18291-15018	20	78-105	14632-10870	10	78-80	7316-7133
	30	85-115	20141-14887	25	100-135	14267-10568	15	85-105	10071-8152
	40	110-150	20752-15218	30	120-160	14267-10700	20	110-135	10376-8454
	50	140-180	20381-15852	40	160-200	14267-11413	25	140-160	10190-8917
	60	170-200	20141-17120	-	-	-	30	170-200	10071-14267
SCSMR5-15/1	7.5	22-24	19267-17661	7.5	24-34	17661-12467	5	24-34	11774-8311
	10	24-34	23548-16622	10	38-54	14873-10466	7.5	38-52	11154-8151
	15	38-54	22309-15699	15	58-80	14616-10597	10	54-80	10466-7065
	20	54-78	20932-14491	20	78-110	14491-10276	15	85-110	9973-7707
	25	70-95	20184-14873	25	100-125	14129-11303	20	110-125	10276-9043
	30	85-115	19947-14743	-	-	-	-	-	-
	40	110-125	20551-18085	-	-	-	-	-	-
SCSMR5-25/1	2	4-5	28258-22606	1.5	4-5	21194-16955	1	4-5	14129-11303
	3	6-8	28258-21194	2	5-6	22606-18839	1.5	6-7	14129-12111
	5	10-14	28258-20184	3	8-14	21194-12111	2	8-12	14129-9419
	7.5	16-24	26492-17661	5	16-24	17661-11774	3	14-22	12111-7707
	10	24-34	23548-16622	7.5	24-34	17661-12467	5	24-34	11774-8311
	15	38-54	22309-15699	10	38-54	14873-10466	7.5	38-52	11154-8151
	20	54-78	20932-14491	15	58-80	14616-10597	10	54-78	10466-7246
	25	70-80	20184-17661	20	78-80	14491-14129	-	-	-
SCSMR6-9/1	50	78-105	36581-27175	30	78-90	21949-19022	25	78-95	18291-15018
	60	95-125	36042-27392	40	90-120	25363-19022	30	95-120	18021-14267
	75	120-200	35667-21400	50	110-150	25939-19022	40	125-150	18261-15218
	-	-	-	60	130-180	26338-19022	50	160-200	17833-14267
	-	-	-	75	160-200	26750-21400	60	190-200	18021-17120
SCSMR6-15/1	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-74	18231-15275
	40	62-85	36462-26596	30	66-90	25689-18839	25	78-95	18114-14873
	50	78-105	36228-26912	40	90-120	25118-18839	30	95-125	17847-13564
	60	95-125	35694-27128	-	-	-	-	-	-
SCSMR6-25/1	3	4-5	42387-33910	2	4-5	28258-22606	1.5	4-5	21194-16955
	5	6-8	47097-35323	3	6-8	28258-21194	2	6-7	18839-16147
	7.5	10-12	42387-35323	5	10-12	28258-23548	3	8-12	21194-14129
	10	14-18	40369-31398	7.5	14-18	30276-23548	5	14-18	20184-15699
	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-70	18231-16147
	40	62-80	36462-28258	30	66-78	25689-21737	-	-	-
SCSMR7-15/1	20	18-22	62796-51378	20	26-34	43474-33245	10	16-24	35323-23548
	25	22-30	64223-47097	25	32-46	44153-30715	15	26-34	32605-24934
	30	26-38	65211-44618	30	40-58	42387-29232	20	38-46	29745-24572
	40	38-54	59491-41864	40	58-80	38977-28258	25	50-62	28258-22789
	50	50-74	56516-38187	50	74-100	38188-28259	30	62-80	27346-21194
	60	62-85	54696-39896	60	90-115	37679-29488	40	85-100	26596-22607
	75	90-115	47099-36860	-	-	-	50	105-115	26914-24573

* All output torque ratings listed in inch-pounds

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Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



Eliminator SCSMR Series Reducers: Mechanical Ratings (Cont)

1 THE ELIMINATOR SHAFT MOUNT REDUCER	Reducer Model Number	Service Class I			Service Class II			Service Class III		
		Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR7-25/1		5	4-5	70645-56516	3	4-5	42387-33910	3	5-7	33910-24221
		7.5	6-7	70645-60553	5	6-7	47097-40369	5	8-10	35323-28258
		10	8-10	70645-56516	7.5	8-10	52984-42387	7.5	12-14	35323-30276
		15	12-16	70645-52984	10	12-16	47097-35323	10	16-24	35323-23548
		20	16-22	70645-51378	15	18-26	47097-32605	15	26-34	32605-24934
		25	22-30	64223-47097	20	24-34	47097-33245	20	38-46	29745-24572
		30	26-38	65211-44618	25	32-46	44153-30715	25	50-62	28258-22789
		40	38-54	59491-41864	30	40-58	42387-29232	30	62-80	27346-21195
		50	50-74	56516-38187	40	58-74	38977-30549	-	-	-
SCSMR8-9/1		60	62-80	54696-42389	50	74-80	38188-35324	-	-	-
		100	70-85	80741-66493	75	70-90	60556-47099	50	70-78	40370-36230
		125	80-200	88310-35324	100	90-120	62799-47099	60	78-95	43476-35696
		-	-	-	125	110-200	64226-35324	75	95-125	44620-33911
SCSMR8-15/1		-	-	-	-	-	-	100	130-200	43476-28259
		40	20-30	113032-75355	25	20-26	70645-54342	15	18-20	47097-42387
		50	28-40	100922-70645	30	22-32	77067-52984	20	20-26	56516-43474
		60	34-46	99734-73717	40	32-46	70645-49144	25	28-34	50461-41556
		75	45-70	94193-60553	50	40-58	70645-48721	30	34-46	49867-36858
		100	62-85	91159-66493	60	50-74	67819-45824	40	50-58	45213-38977
		125	80-125	88310-56519	75	66-90	64223-47099	50	62-78	45577-36228
		-	-	-	100	90-125	62799-45215	60	78-95	43474-35696
		-	-	-	-	-	-	75	95-125	44620-33911
SCSMR8-25/1		7.5	4-5	105968-84774	5	4-5	70645-56516	3	4-5	42387-33910
		10	6-7	94193-80737	7.5	6-7	70645-60553	5	5-7	56516-40369
		15	8-9	105968-94193	10	8-9	70645-62796	7.5	7-9	60553-47097
		20	10-12	113032-94193	15	10-14	84774-60553	10	10-14	56516-40369
		25	12-16	117742-88306	20	14-20	80737-56516	15	16-20	52984-42387
		30	16-20	105968-84774	25	18-26	78495-54342	20	20-26	56516-43474
		40	20-30	113032-75355	30	22-32	77067-52984	25	28-34	50461-41556
		50	28-40	100922-70645	40	32-46	70645-49144	30	34-46	49867-36858
		60	34-46	99734-73717	50	40-58	70645-48721	40	50-58	45213-38977
		75	45-70	94193-60553	60	50-74	67819-45824	50	62-80	45577-35324
		100	62-80	91159-70648	75	66-80	64223-52986	-	-	-
SCSMR9-9/1		150	70-200	121111-42389	100	70-85	80741-66493	75	70-90	60556-47099
		-	-	-	125	85-110	83116-64226	100	95-110	59493-51381
		-	-	-	150	100-200	84778-42389	125	115-140	61433-50463
		-	-	-	-	-	-	150	140-200	60556-42389
SCSMR9-15/1		50	18-26	156989-108685	30	20-22	84774-77067	25	18-22	78495-64223
		60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
		75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
		100	45-58	125597-97449	60	34-50	99734-67819	50	45-52	62796-54342
		125	54-80	130830-88310	75	45-66	94193-64226	60	52-66	65211-42387
		150	70-125	121111-67822	100	62-90	91159-62799	75	70-90	60556-47099
		-	-	-	125	85-125	83116-56519	100	95-125	59493-45215

* All output torque ratings listed in inch-pounds

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Section 1: Shaft Mount Reducers

The Eliminator Shaft Mount Reducer



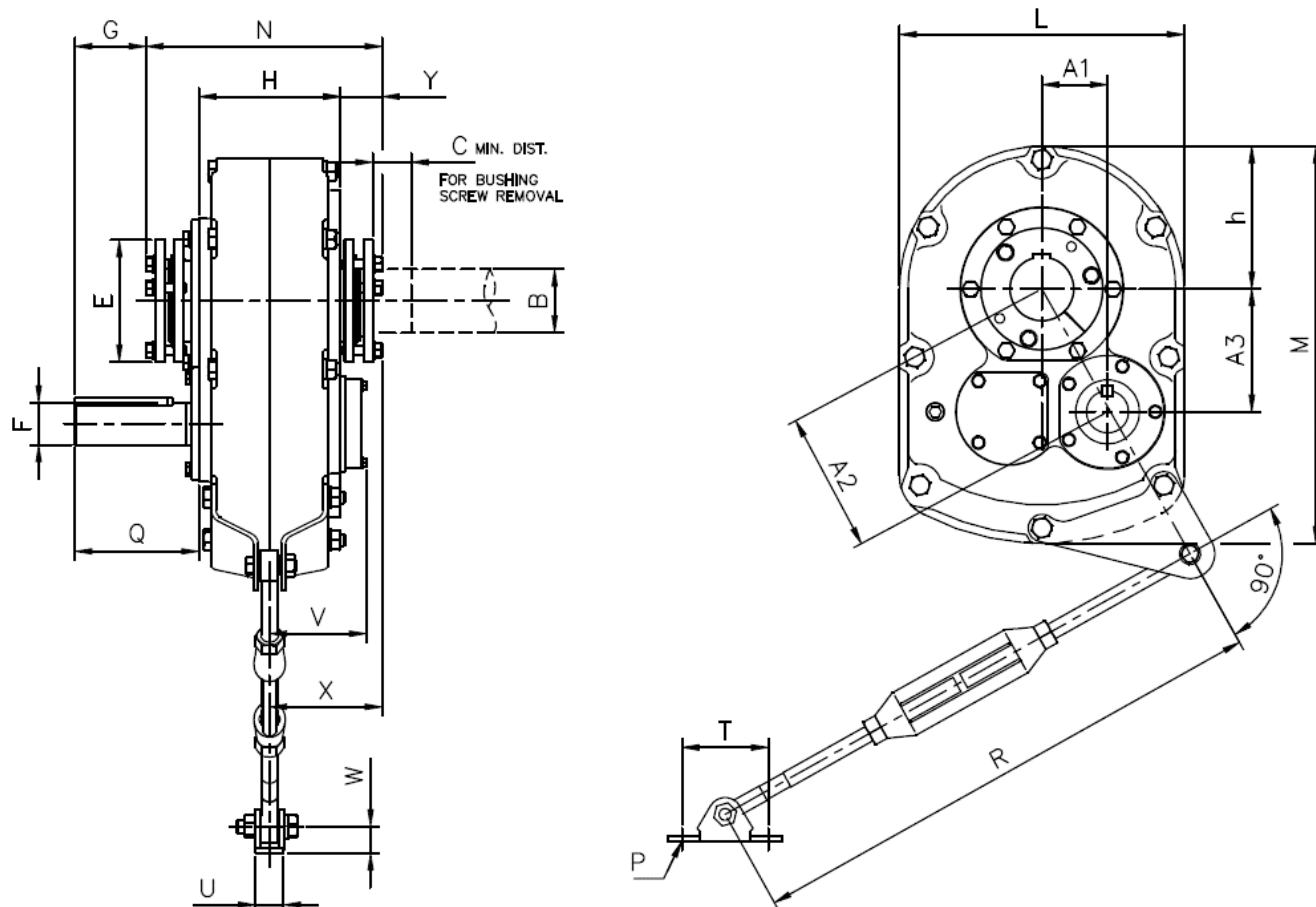
Eliminator SCSMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
SCSMR9-25/1	15	5-6	169548-141290	7.5	4-5	105968-84774	5	4-5	70645-56516
	20	6-8	188387-141290	10	4-6	141290-94193	7.5	5-6	84774-70645
	25	8-10	176613-141290	15	8-9	105968-94193	10	6-8	94193-70645
	30	10-14	169548-121106	20	10-12	113032-94193	15	10-12	84774-70645
	40	14-20	161475-113032	25	12-16	117742-88306	20	14-16	80737-70645
	50	18-26	156989-108685	30	16-22	105968-77067	25	18-22	78495-64223
	60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
	75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
	100	45-62	125597-91159	60	34-50	99734-67819	50	45-52	62796-54342
	125	54-78	130830-90575	75	45-62	94193-68369	60	52-66	65211-51381
SCSMR10-9/1	-	-	-	100	62-78	91159-72460	75	70-78	60556-54345
	200	70-200	161482-56519	150	70-80	121111-105973	125	70-85	100926-83116
	-	-	-	200	80-200	141297-56519	150	90-105	94198-80741
SCSMR10-15/1	-	-	-	-	-	-	200	110-200	102761-56519
	75	18-22	235495-192677	60	18-26	188396-130428	40	18-24	125597-94198
	100	24-32	235495-176621	75	24-34	176621-124674	50	24-32	117747-88310
	125	30-40	235495-176621	100	34-50	166231-113037	60	28-40	121111-84778
	150	38-54	223100-156996	125	45-62	156996-113949	75	38-54	111550-78498
	200	52-125	217380-90430	150	58-80	146169-105973	100	52-74	108690-76377
	-	-	-	200	78-125	144920-90430	125	70-95	100926-74367
SCSMR10-25/1	-	-	-	-	-	-	150	85-125	99739-67822
	25	5-6	299899-235495	15	4-6	211945-141297	10	4-6	141297-94198
	30	6-8	282593-211945	20	6-8	188396-141297	15	6-8	141297-105973
	40	8-10	282593-226075	25	8-10	176621-141297	20	8-10	141297-113037
	50	10-14	282593-201852	30	10-12	169556-141297	25	10-14	141297-100926
	60	12-16	282593-211945	40	12-16	188396-141297	30	12-18	141297-94198
	75	16-22	264931-192677	50	16-20	176621-141297	40	18-24	125597-94198
	100	24-32	235495-176621	60	18-26	188396-130428	50	24-32	117747-88310
	125	30-40	235495-176621	75	24-34	176621-124674	60	28-40	121111-84778
	150	38-54	223100-156996	100	34-50	166231-113037	75	38-54	111550-78498
	200	52-78	217380-144920	125	45-62	156996-113949	100	52-78	108690-72460
	-	-	-	150	58-78	146169-108690	-	-	-

* All output torque ratings listed in inch-pounds

Eliminator SCSMR Series Reducers: Drawings and Dimensions

1
THE ELIMINATOR
SHAFT MOUNT REDUCER



All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.39	7.44	1-1/8	1-15/16	1.25	4.06	1.06	3.74	3.58	4.57	2.13	3.76	26.94	0.51
	11.42		1/4x1/8x2-5/8			2.15	1.10	2.87	1.44		4.32	4.09	32.94	3.00
3	9.25	9.36	1-1/4	2-3/16	1.5	4.37	1.06	4.72	4.33	5.63	2.34	4.17	26.94	0.51
	12.87		1/4x1/8x2-15/16			2.31	1.10	3.49	1.70		4.78	4.84	32.94	3.00
4	10.39	10.29	1-7/16	2-7/16	1.75	4.81	1.23	5.20	5.40	6.38	2.76	4.79	29.19	0.67
	15.16		3/8x3/16x4			3.26	1.34	4.03	1.78		5.53	5.50	35.19	4.00
5	13.15	10.89	1-15/16	2-15/16	1.81	5.63	1.23	5.19	5.72	6.54	3.03	5.67	29.19	0.67
	18.31		1/2x1/4x4-1/2			3.29	1.34	4.47	1.92		6.43	6.57	35.19	4.00
6	15.12	11.76	2-3/16	3-7/16	1.81	6.12	2.00	5.79	6.03	7.36	4.08	6.73	29.19	0.67
	21.34		1/2x1/4x4-1/2			3.58	2.75	5.24	1.94		7.87	7.56	35.19	4.75
7	18.74	13.35	2-7/16	3-15/16	2.06	7.24	2.00	6.71	6.34	7.36	5.10	8.30	29.44	0.67
	25.94		5/8x5/16x4-3/4			3.35	2.75	4.57	3.01		9.74	9.37	35.44	4.75
8	20.24	14.56	2-7/16	4-7/16	2.06	7.80	3.15	7.35	7.11	8.46	6.03	9.50	30.00	0.83
	28.27		5/8x5/16x5-3/8			4.07	4.02	5.89	3.06		11.25	10.12	36.00	7.00
9	22.64	14.74	2-7/16	4-15/16	2.44	8.66	3.15	7.51	9.65	8.27	6.59	10.81	30.00	0.83
	31.69		5/8x5/16x7-3/4			6.50	4.02	6.13	3.33		12.66	11.32	36.00	7.00
10	25.76	15.69	2-11/16	5-7/16	2.44	10.12	3.15	7.86	10.26	9.45	6.59	12.5	29.92	0.83
	34.96		5/8x5/8x8			7.14	3.5	6.9	3.12		14.13	12.94	36.22	7.00

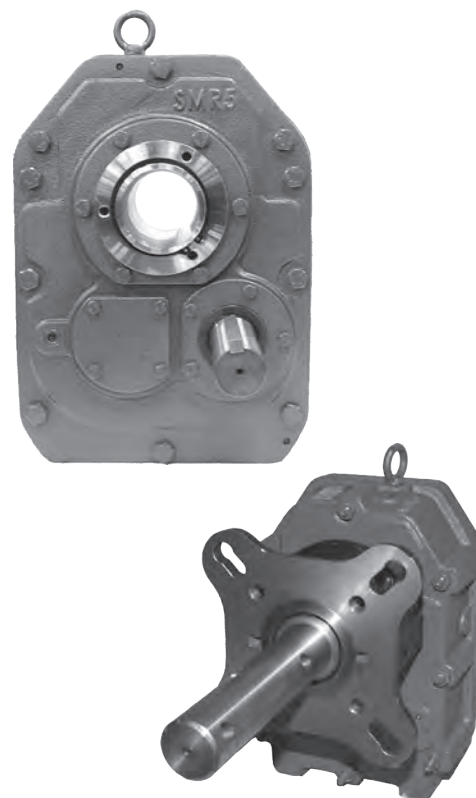
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Ultimate WSMR Series Reducers: Product Overview

Product Specifications

- » 9:1, 15:1 and 25:1 ratios
- » Box sizes 2 - 9
- » Tapered bushing type (bushing not included)
- » Premium quality ball and tapered bearings - double lip seals
- » Shafts and gears manufactured from high grade steel, case hardened and precision ground to A.G.M.A. standards
- » Industrial grade all-cast iron housings protect gearing for life
- » Extended gear centers and tooth contact
- » Metal reinforced double lip, spring loaded oil seals
- » Dimensional drop-in for all major makes
- » Torque arm included
- » Made in Taiwan (highest level of manufacturing expertise)
- » 3 year warranty

Box Size	Ratio	Output Bore (Max.)	Approx. Wt. (lbs.)	Model Number	List Price
2	9:1 15:1 25:1	1 15/16"	68	WSMR2-9/1 WSMR2-15/1 WSMR2-25/1	\$1,409.76
3	9:1 15:1 25:1	2 3/16"	106	WSMR3-9/1 WSMR3-15/1 WSMR3-25/1	\$2,105.95
4	9:1 15:1 25:1	2 7/16"	156	WSMR4-9/1 WSMR4-15/1 WSMR4-25/1	\$2,848.41
5	9:1 15:1 25:1	2 15/16"	204	WSMR5-9/1 WSMR5-15/1 WSMR5-25/1	\$4,277.79
6	9:1 15:1 25:1	3 7/16"	314	WSMR6-9/1 WSMR6-15/1 WSMR6-25/1	\$5,589.54
7	15:1 25:1	3 15/16"	487	WSMR7-15/1 WSMR7-25/1	\$10,381.38
8	15:1 25:1	4 7/16"	655	WSMR8-15/1 WSMR8-25/1	\$13,335.72
9	15:1 25:1	4 15/16"	783	WSMR9-15/1 WSMR9-25/1	\$18,888.93



All-in-1 Ultimate Shaft Mount Reducer System Components can be found on Page 22

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THE ULTIMATE
SHAFT MOUNT REDUCER

WSMR Series Reducers: Overhung Load Capacity of Output Shaft (lbs)

Box Size	Shaft Size (inches)	Output Speed (RPM)									
		10	20	30	40	50	60	80	100	120	140
2	1 7/16	2416	1918	1675	1522	1413	1330	1208	1121	1055	1003
	1 15/16	2202	1748	1527	1387	1288	1212	1101	1022	962	914
3	1 15/16	4336	3520	3120	2856	2672	2536	2320	2176	2056	1960
	2 3/16	4176	3392	3008	2760	2576	2440	2240	2096	1984	1896
4	2 3/16	6024	4896	4336	3976	3720	3520	3232	3016	2856	2728
	2 7/16	5832	4736	4192	3848	3600	3408	32158	2920	2768	2640
5	2 7/16	6272	5096	4512	4136	3872	3664	3360	144	2976	2840
	2 15/16	5928	4816	4264	3912	3656	3464	3176	2968	2816	2688
6	2 15/16	7408	6016	5328	4888	4568	4328	3968	3712	3512	3360
	3 7/16	7064	5736	5080	4664	4360	4128	3784	3544	3352	3200
7	3 7/16	5968	4848	4296	3936	3688	3488	3200	2992	2832	2704
	3 15/16	5736	4656	4120	3784	3536	3352	3072	2872	2720	2600
8	3 15/16	7472	6072	5376	4928	4608	4368	4008	3744	3544	3384
	4 7/16	7208	5826	5184	4760	4448	4208	3864	3616	3424	3264
9	4 7/16	9032	7336	6496	5960	5576	5272	4840	4528	4288	4088
	4 15/16	8744	7104	6288	5768	5400	5112	4688	4384	4152	3960

Section 1: Shaft Mount Reducers

The Ultimate Shaft Mount Reducer



Ultimate WSMR Series Reducers: Mechanical Ratings

1
THE ULTIMATE
SHAFT MOUNT REDUCER

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
WSMR2-9/1	7.5	85-105	5035-4076	5	85-105	3357-2717	3	85-100	2014-1712
	10	105-150	5435-3804	7.5	110-150	3891-2853	5	105-150	2717-1902
	15	160-200	5350-4280	10	150-200	3804-2853	7.5	160-200	2675-2140
WSMR2-15/1	2	16-24	7065-4710	1.5	18-24	4710-3532	1.5	26-34	3261-2493
	3	26-45	6521-3768	2	24-34	4710-3324	2	38-58	2975-1949
	5	46-74	6143-3819	3	38-70	4462-2422	3	58-100	2923-1695
	7.5	78-105	5434-4037	5	70-105	4037-2691	5	105-140	2691-2018
	10	105-140	5382-4037	7.5	110-140	3853-3028	-	-	-
WSMR2-25/1	0.5	4-6	7065-4710	0.33	4-5	4663-3730	0.25	4-5	3532-2826
	0.75	6-8	7065-5298	0.5	6-8	4710-3532	0.33	6-8	3108-2331
	1	8-10	7065-5652	0.75	8-12	5298-3532	0.5	8-12	3532-2355
	1.5	12-16	7065-5298	1	12-16	4710-3532	0.75	12-16	3532-2649
	2	16-24	7065-4710	1.5	18-24	4710-3532	1	16-24	3532-2355
	3	26-45	6521-3768	2	24-34	4710-3324	1.5	26-34	3261-2493
	5	46-74	6143-3819	3	38-70	4462-2422	2	38-58	2975-1949
	7.5	78-85	5434-4987	5	70-85	4037-3324	3	58-85	2923-1995
WSMR3-9/1	10	85-105	6714-5435	7.5	85-105	5035-4076	5	85-105	3357-2717
	15	110-140	7782-6114	10	100-140	5707-4076	7.5	110-140	3891-3057
	20	150-200	7609-5707	15	150-200	5707-4280	10	150-200	3804-2853
WSMR3-15/1	3	28-30	6055-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-105	3819-2691
	10	78-105	7246-5382	7.5	78-105	5434-4037	7.5	110-140	3853-3028
	15	110-140	7707-6055	10	100-140	5652-4037	-	-	-
WSMR3-25/1	0.75	4-5	10597-8477	0.5	4-5	7065-5652	0.5	6-7	4710-4037
	1	6-7	9419-8074	0.75	6-7	7065-6055	0.75	8-10	5298-4239
	1.5	8-10	10597-8477	1	8-10	7065-5652	1	10-16	5652-3532
	2	12-16	9419-7065	1.5	12-16	7065-5298	1.5	18-24	4710-3532
	3	18-30	9419-5652	2	16-24	7065-4710	2	24-38	4710-2975
	5	32-50	8831-5652	3	26-46	6521-3686	3	40-70	4239-2422
	7.5	52-74	8151-5728	5	50-74	5652-3819	5	74-85	3819-3324
	10	78-85	7246-6649	7.5	78-85	5434-4987	-	-	-
WSMR4-9/1	20	85-105	13427-10870	15	85-115	10071-7443	10	85-115	6714-4962
	25	100-135	14267-10568	20	110-150	10376-7609	15	120-150	7133-5707
	30	120-160	14267-10700	25	140-190	10190-7509	20	160-200	7133-5707
	40	160-200	14267-11413	30	170-200	10700-8560	-	-	-
WSMR4-15/1	5	18-24	15699-11774	3	14-22	12111-7707	3	20-34	8477-4987
	7.5	26-34	16303-12467	5	24-34	11774-8311	5	38-54	7436-5233
	10	38-54	14873-10466	7.5	38-54	11154-7849	7.5	58-80	7308-5298
	15	58-80	14616-10597	10	54-80	10466-7065	10	80-140	7065-4037
	20	80-110	14219-10276	15	85-115	9973-7372	-	-	-
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-
WSMR4-25/1	1	4-5	14129-11303	0.75	4-5	10597-8477	0.5	4-5	7065-5652
	1.5	5-7	16955-12111	1	5-6	11303-9419	0.75	5-6	8477-7065
	2	6-8	18839-14129	1.5	6-8	14129-10597	1	6-8	9419-7065
	3	10-14	16955-12111	2	10-12	11303-9419	1.5	10-12	8477-7065
	5	16-24	17661-11774	3	14-22	12111-7707	2	14-18	8074-6280
	7.5	26-34	16303-12467	5	24-34	11774-8311	3	20-34	8477-4987
	10	38-54	14873-10466	7.5	38-54	11154-7849	5	38-54	7436-5233
	15	58-80	14616-10597	10	54-85	10466-6649	7.5	58-85	7308-4987
	25	100-140	14129-10092	20	110-140	10276-8074	-	-	-

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Ultimate Shaft Mount Reducer



Ultimate WSMR Series Reducers: Mechanical Ratings (Cont)

Reducer Model Number	Service Class I			Service Class II			Service Class III		
	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
WSMR5-9/1	25	78-95	18291-15018	20	78-105	14632-10870	10	78-80	7316-7133
	30	85-115	20141-14887	25	100-135	14267-10568	15	85-105	10071-8152
	40	110-150	20752-15218	30	120-160	14267-10700	20	110-135	10376-8454
	50	140-180	20381-15852	40	160-200	14267-11413	25	140-160	10190-8917
	60	170-200	20141-17120	-	-	-	30	170-200	10071-14267
WSMR5-15/1	7.5	22-24	19267-17661	7.5	24-34	17661-12467	5	24-34	11774-8311
	10	24-34	23548-16622	10	38-54	14873-10466	7.5	38-52	11154-8151
	15	38-54	22309-15699	15	58-80	14616-10597	10	54-80	10466-7065
	20	54-78	20932-14491	20	78-110	14491-10276	15	85-110	9973-7707
	25	70-95	20184-14873	25	100-125	14129-11303	20	110-125	10276-9043
	30	85-115	19947-14743	-	-	-	-	-	-
	40	110-125	20551-18085	-	-	-	-	-	-
WSMR5-25/1	2	4-5	28258-22606	1.5	4-5	21194-16955	1	4-5	14129-11303
	3	6-8	28258-21194	2	5-6	22606-18839	1.5	6-7	14129-12111
	5	10-14	28258-20184	3	8-14	21194-12111	2	8-12	14129-9419
	7.5	16-24	26492-17661	5	16-24	17661-11774	3	14-22	12111-7707
	10	24-34	23548-16622	7.5	24-34	17661-12467	5	24-34	11774-8311
	15	38-54	22309-15699	10	38-54	14873-10466	7.5	38-52	11154-8151
	20	54-78	20932-14491	15	58-80	14616-10597	10	54-78	10466-7246
	25	70-80	20184-17661	20	78-80	14491-14129	-	-	-
WSMR6-9/1	50	78-105	36581-27175	30	78-90	21949-19022	25	78-95	18291-15018
	60	95-125	36042-27392	40	90-120	25363-19022	30	95-120	18021-14267
	75	120-200	35667-21400	50	110-150	25939-19022	40	125-150	18261-15218
	-	-	-	60	130-180	26338-19022	50	160-200	17833-14267
	-	-	-	75	160-200	26750-21400	60	190-200	18021-17120
WSMR6-15/1	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-74	18231-15275
	40	62-85	36462-26596	30	66-90	25689-18839	25	78-95	18114-14873
	50	78-105	36228-26912	40	90-120	25118-18839	30	95-125	17847-13564
	60	95-125	35694-27128	-	-	-	-	-	-
WSMR6-25/1	3	4-5	42387-33910	2	4-5	28258-22606	1.5	4-5	21194-16955
	5	6-8	47097-35323	3	6-8	28258-21194	2	6-7	18839-16147
	7.5	10-12	42387-35323	5	10-12	28258-23548	3	8-12	21194-14129
	10	14-18	40369-31398	7.5	14-18	30276-23548	5	14-18	20184-15699
	15	20-26	42387-32605	10	18-26	31398-21737	7.5	20-24	21194-17661
	20	26-38	43474-29745	15	28-40	30276-21194	10	26-40	21737-14129
	25	34-50	41556-28258	20	40-58	28258-19488	15	45-58	18839-14616
	30	45-62	37677-27346	25	52-78	27171-18114	20	62-70	18231-16147
	40	62-80	36462-28258	30	66-78	25689-21737	-	-	-
WSMR7-15/1	20	18-22	62796-51378	20	26-34	43474-33245	10	16-24	35323-23548
	25	22-30	64223-47097	25	32-46	44153-30715	15	26-34	32605-24934
	30	26-38	65211-44618	30	40-58	42387-29232	20	38-46	29745-24572
	40	38-54	59491-41864	40	58-80	38977-28258	25	50-62	28258-22789
	50	50-74	56516-38187	50	74-100	38188-28259	30	62-80	27346-21194
	60	62-85	54696-39896	60	90-115	37679-29488	40	85-100	26596-22607
	75	90-115	47099-36860	-	-	-	50	105-115	26914-24573

* All output torque ratings listed in inch-pounds

Continued On Next Page

Section 1: Shaft Mount Reducers

The Ultimate Shaft Mount Reducer

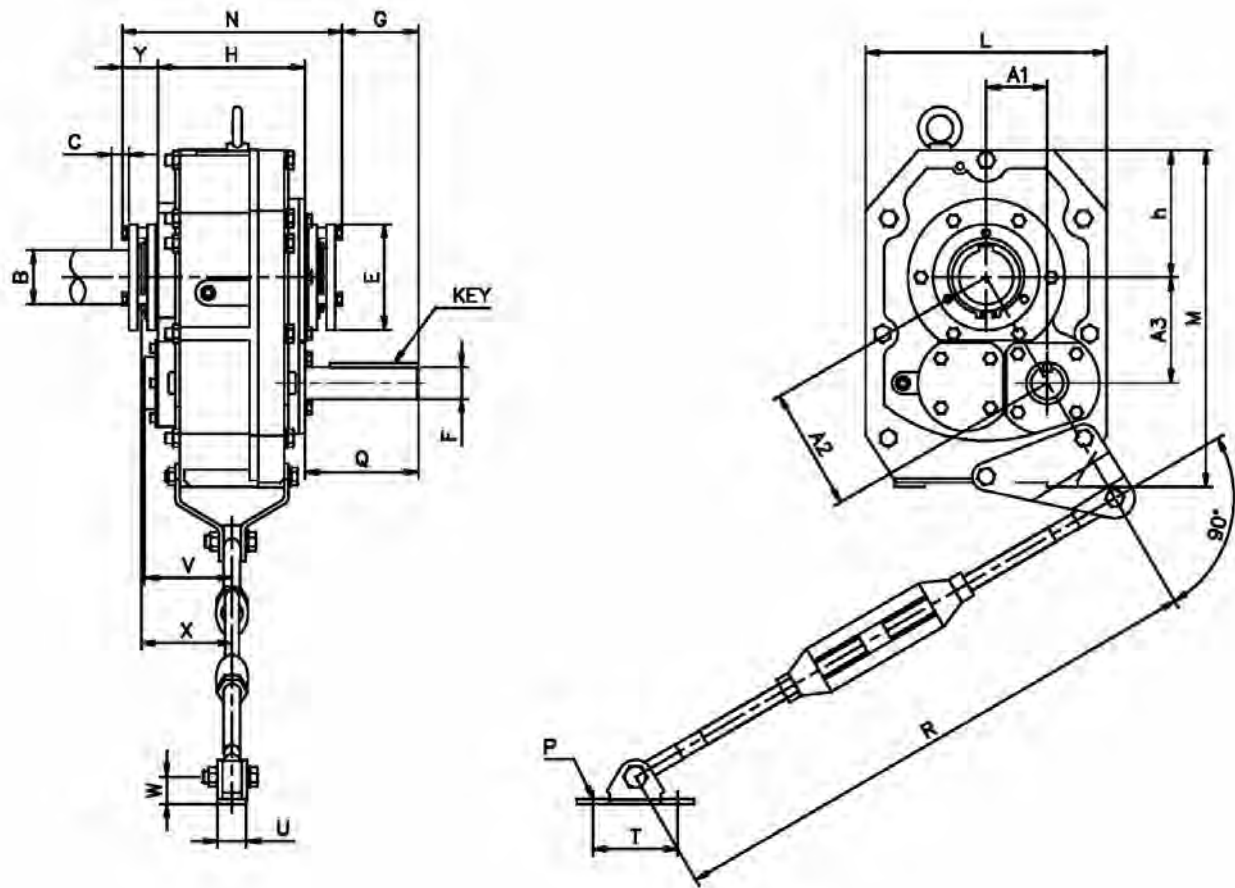


Ultimate WSMR Series Reducers: Mechanical Ratings (Cont)

1	Reducer Model Number	Service Class I			Service Class II			Service Class III		
		Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque	Power (HP)	Output (RPM)	Output * Torque
THE ULTIMATE SHAFT MOUNT REDUCER	WSMR7-25/1	5	4-5	70645-56516	3	4-5	42387-33910	3	5-7	33910-24221
		7.5	6-7	70645-60553	5	6-7	47097-40369	5	8-10	35323-28258
		10	8-10	70645-56516	7.5	8-10	52984-42387	7.5	12-14	35323-30276
		15	12-16	70645-52984	10	12-16	47097-35323	10	16-24	35323-23548
		20	16-22	70645-51378	15	18-26	47097-32605	15	26-34	32605-24934
		25	22-30	64223-47097	20	24-34	47097-33245	20	38-46	29745-24572
		30	26-38	65211-44618	25	32-46	44153-30715	25	50-62	28258-22789
		40	38-54	59491-41864	30	40-58	42387-29232	30	62-80	27346-21195
		50	50-74	56516-38187	40	58-74	38977-30549	-	-	-
		60	62-80	54696-42389	50	74-80	38188-35324	-	-	-
	WSMR8-9/1	100	70-85	80741-66493	75	70-90	60556-47099	50	70-78	40370-36230
		125	80-200	88310-35324	100	90-120	62799-47099	60	78-95	43476-35696
		-	-	-	125	110-200	64226-35324	75	95-125	44620-33911
		-	-	-	-	-	-	100	130-200	43476-28259
	WSMR8-15/1	40	20-30	113032-75355	25	20-26	70645-54342	15	18-20	47097-42387
		50	28-40	100922-70645	30	22-32	77067-52984	20	20-26	56516-43474
		60	34-46	99734-73717	40	32-46	70645-49144	25	28-34	50461-41556
		75	45-70	94193-60553	50	40-58	70645-48721	30	34-46	49867-36858
		100	62-85	91159-66493	60	50-74	67819-45824	40	50-58	45213-38977
		125	80-125	88310-56519	75	66-90	64223-47099	50	62-78	45577-36228
		-	-	-	100	90-125	62799-45215	60	78-95	43474-35696
		-	-	-	-	-	-	75	95-125	44620-33911
	WSMR8-25/1	7.5	4-5	105968-84774	5	4-5	70645-56516	3	4-5	42387-33910
		10	6-7	94193-80737	7.5	6-7	70645-60553	5	5-7	56516-40369
		15	8-9	105968-94193	10	8-9	70645-62796	7.5	7-9	60553-47097
		20	10-12	113032-94193	15	10-14	84774-60553	10	10-14	56516-40369
		25	12-16	117742-88306	20	14-20	80737-56516	15	16-20	52984-42387
		30	16-20	105968-84774	25	18-26	78495-54342	20	20-26	56516-43474
		40	20-30	113032-75355	30	22-32	77067-52984	25	28-34	50461-41556
		50	28-40	100922-70645	40	32-46	70645-49144	30	34-46	49867-36858
		60	34-46	99734-73717	50	40-58	70645-48721	40	50-58	45213-38977
		75	45-70	94193-60553	60	50-74	67819-45824	50	62-80	45577-35324
		100	62-80	91159-70648	75	66-80	64223-52986	-	-	-
		-	-	-	-	-	-	-	-	-
	WSMR9-9/1	150	70-200	121111-42389	100	70-85	80741-66493	75	70-90	60556-47099
		-	-	-	125	85-110	83116-64226	100	95-110	59493-51381
		-	-	-	150	100-200	84778-42389	125	115-140	61433-50463
		-	-	-	-	-	-	150	140-200	60556-42389
	WSMR9-15/1	50	18-26	156989-108685	30	20-22	84774-77067	25	18-22	78495-64223
		60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
		75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
		100	45-58	125597-97449	60	34-50	99734-67819	50	45-52	62796-54342
		125	54-80	130830-88310	75	45-66	94193-64226	60	52-66	65211-42387
		150	70-125	121111-67822	100	62-90	91159-62799	75	70-90	60556-47099
		-	-	-	125	85-125	83116-56519	100	95-125	59493-45215
	WSMR9-25/1	15	5-6	169548-141290	7.5	4-5	105968-84774	5	4-5	70645-56516
		20	6-8	188387-141290	10	4-6	141290-94193	7.5	5-6	84774-70645
		25	8-10	176613-141290	15	8-9	105968-94193	10	6-8	94193-70645
		30	10-14	169548-121106	20	10-12	113032-94193	15	10-12	84774-70645
		40	14-20	161475-113032	25	12-16	117742-88306	20	14-16	80737-70645
		50	18-26	156989-108685	30	16-22	105968-77067	25	18-22	78495-64223
		60	22-32	154135-105968	40	22-30	102757-75355	30	22-30	77067-56516
		75	30-45	141290-94198	50	28-40	100922-70645	40	32-40	70645-56516
		100	45-62	125597-91159	60	34-50	99734-67819	50	45-52	62796-54342
		125	54-78	130830-90575	75	45-62	94193-68369	60	52-66	65211-51381
		-	-	-	100	62-78	91159-72460	75	70-78	60556-54345

* All output torque ratings listed in inch-pounds

Ultimate WSMR Series Reducers: Drawings and Dimensions



1
THE ULTIMATE
SHAFT MOUNT REDUCER

All listed dimensions in inches														
Box Size	L M	N	F Key	B Max.	C	E G	W U	X V	Q Y	H	A1 A2	A3 h	R Min. R Max.	P T
2	8.38	7.32	1.125	1 15/16	1.25	4.06	1.06	3.68	3.59	4.56	2.14	3.75	26.94	0.44
	11.41		0.25 x 0.125 x 2.50			2.22	1.25	2.89	1.4		4.32	4.09	32.94	3
3	9.25	9.22	1.25	2 3/16	1.5	4.38	1.06	4.52	4.34	5.63	2.33	4.17	26.94	0.44
	12.88		0.25 x 0.125 x 2.875			2.34	1.25	3.3	1.59		4.78	4.84	32.94	3
4	10.38	9.98	1.4375	2 7/16	1.75	4.81	1.75	4.79	5.57	6.13	2.76	4.79	29.19	0.55
	15.13		0.375 x 0.188 x 4.06			3.44	1.44	3.41	1.72		5.53	5.5	35.19	4
5	13.13	10.52	1.9375	2 15/16	1.81	5.63	1.75	5.05	5.74	6.31	3.04	5.67	29.19	0.5
	18.31		0.50 x 0.25 x 4.50			3.44	1.44	4.45	1.91		6.43	6.56	35.19	4
6	15.13	11.53	2.1875	3 7/16	1.81	6.13	2	5.73	6.08	6.88	4.09	6.71	29.19	0.63
	21.31		0.50 x 0.25 x 4.50			3.73	2.75	4.57	2.3		7.88	7.56	35.19	4.75
7	18.75	12.85	2.4375	3 15/16	2.06	7.25	2	6.38	6.35	7.75	5.11	8.3	29.44	0.63
	25.94		0.625 x 0.312 x 4.75			3.75	2.75	4.69	2.5		9.74	9.38	35.44	4.75
8	20.25	14.03	2.4375	4 7/16	2.06	7.75	3.13	7.04	7.11	8.37	6.03	9.5	30	0.75
	28.25		0.625 x 0.312 x 5.375			4.31	4	5.85	2.86		11.25	10.13	36	7
9	22.63	14.12	2.4375	4 15/16	2.44	8.75	3.13	7.04	9.65	8.12	6.59	10.81	30	0.75
	31.69		0.625 x 0.312 x 7.75			6.63	4	5.66	2.98		12.66	11.31	36	7

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Competitive Interchange, Ratios 9:1 and 15:1

1

9:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
SCSMR2-9/1 WSMR2-9/1	TXT209AT	PT2115S09	115SMTP09	CGUSM2-09
SCSMR3-9/1 WSMR3-9/1	TXT309AT	PT3203S09	203SMTP09	CGUSM3-09
SCSMR4-9/1 WSMR4-9/1	TXT409AT	PT4207S09	207SMTP09	CGUSM4-09
SCSMR5-9/1 WSMR5-9/1	TXT509AT	PT5215S09	215SMTP09	CGUSM5-09
SCSMR6-9/1 WSMR6-9/1	TXT609AT	PT6307S09	307SMTP09	CGUSM6-09

15:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
SMR2-15/1 SCSMR2-15/1 WSMR2-15/1	TXT215AT	PT2115S15	115SMTP15	CGUSM2-15
SMR3-15/1 SCSMR3-15/1 WSMR3-15/1	TXT315AT	PT3203S15	203SMTP15	CGUSM3-15
SMR4-15/1 SCSMR4-15/1 WSMR4-15/4	TXT415AT	PT4207S15	207SMTP15	CGUSM4-15
SMR5-15/1 SCSMR5-15/1 WSMR5-15/1	TXT515AT	PT5215S15	215SMTP15	CGUSM5-15
SMR6-15/1 SCSMR6-15/1 WSMR6-15/1	TXT615AT	PT6307S15	307SMTP15	CGUSM6-15
SMR7-15/1 SCSMR7-15/1 WSMR7-15/1	TXT715AT	PT7315S15	315SMTP15	CGSM7- 15
SMR8-15/1 SCSMR8-15/1 WSMR8-15/1	TXT815AT	PT8407S15	407SMTP15	CGSM8-15
SMR9-15/1 SCSMR9-15/1 WSMR9-15/1	TXT915AT	PT9415S15	415SMTP15	CGSM9-15
SMR10-15/1 SCSMR10-15/1	TXT1015AT	PT10507S15	507SMT15	CGSM10-15
SMR12-15/1	TXT1215TV	-	608SMTP15	-

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Competitive Interchange, Ratios 25:1

25:1 Ratio

WorldWide Electric	Dodge	Hub City	Browning	Cleveland Gear
SMR2-25/1 SCSMR2-25/1 WSMR2-25/1	TXT225AT	PT2115S25	115SMTP25	CGUSM2-25
SMR3-25/1 SCSMR3-25/1 WSMR3-25/1	TXT325AT	PT3203S25	203SMTP25	CGUSM3-25
SMR4-25/1 SCSMR4-25/1 WSMR4-25/4	TXT425AT	PT4207S25	207SMTP25	CGUSM4-25
SMR5-25/1 SCSMR5-25/1 WSMR5-25/1	TXT525AT	PT5215S25	215SMTP25	CGUSM5-25
SMR6-25/1 SCSMR6-25/1 WSMR6-25/1	TXT625AT	PT6307S25	307SMTP25	CGUSM6-25
SMR7-25/1 SCSMR7-25/1 WSMR7-25/1	TXT725AT	PT7315S25	315SMTP25	CGSM7-25
SMR8-25/1 SCSMR8-25/1 WSMR8-25/1	TXT825AT	PT8407S25	407SMTP25	CGSM8-25
SMR9-25/1 SCSMR9-25/1 WSMR9-25/1	TXT925AT	PT9415S25	415SMTP25	CGSM9-25
SMR10-25/1 SCSMR10-25/1	TXT1025AT	PT10507S25	507SMT25	CGSM10-25
SMR12-25/1	TXT1225TV	-	-	-

1

SHAFT MOUNT REDUCER
COMPETITIVE INTERCHANGE

Backstop Assemblies



- » Easy mount for WorldWide shaft mount reducers
- » Smooth forward operation of conveyor with no backslip
- » WSMR backstops are also compatible with the Eliminator SCSMR series.

Box Size	Model Number (1)	Model Number (2)	List Price
2	SMR2BSK	WSMR2BSK	\$236.76
3	SMR3BSK	WSMR3BSK	\$302.98
4	SMR4BSK	WSMR4BSK	\$302.98
5	SMR5BSK	WSMR5BSK	\$359.82
6	SMR6/7BSK	WSMR6BSK	\$681.77
7	SMR6/7BSK	WSMR7BSK	\$681.77
8	SMR8/9BSK	WSMR8BSK	\$1,493.36
9	SMR8/9BSK	WSMR9BSK	\$1,493.36
10	SMR10BSK	SCSMR10BSK	\$1,686.95

(1) Use SMR#BSK model number backstop assemblies for WorldWide Electric Original series shaft mount reducers.

(2) Use WSMR#BSK model number backstop assemblies for WorldWide Electric's Ultimate (WSMR) or Eliminator (SCSMR) series shaft mount reducers. The SCSMR10BSK is compatible with the SCSMR10 only.

Belt Guards



- » Hinged design for easy access to belts and sheaves
- » Slotted metal panel construction
- » Assembles to reducer and motor mount holes
- » Easy mount for WorldWide shaft mount reducers

Box Size	Model Number	List Price
2	BG2	\$428.65
3	BG3	\$487.19
4	BG4	\$558.82
5	BG5	\$616.24
6	BG6	\$702.11
7	BG7	\$826.02
8	BG8	\$971.78
9	BG9	\$1,351.77
10	BG10	\$1,463.50

Motor Mounts



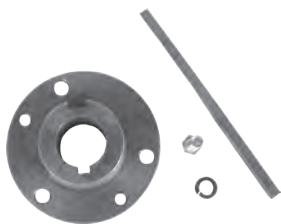
- » Heavy gauge steel construction for NEMA frame motors
- » Adjustable top plate for belt tensioning

Box Size	NEMA Frame	Model Number	List Price
2	56-215T	MM2	\$428.96
3	56-215T	MM3A	\$441.25
4	143T-286T	MM4	\$687.46
5	143T-286T	MM5A	\$687.46
6	143T-326T	MM6A	\$956.39
7	143T-365T	MM7	\$1,025.82
8	213T-365T	MM8A	\$1,230.98
9	284T-365T	MM9	\$1,230.98
10	254T-365T	MM10	\$1,382.74

V-Belt Drive Center Distances for MM Series Motor Mounts

Motor Mount	SMR Size	Center Distances For Various NEMA Motor Frames (Table ratings for 1800 RPM Motors only.)															
		56C		143/5T		182/4T		213/5T		254/6T		284/6T		324/6T		364/5T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MM2	SMR2 SCSMR2 WSMR2	18.7	22.1	18.7	22.1	19.7	23.1	20.5	23.9	---	---	---	---	---	---	---	---
MM3A	SMR3 SCSMR3 WSMR3	20.2	23.6	20.2	23.6	21.2	24.6	22.0	25.3	23.0	26.3	---	---	---	---	---	---
MM4	SMR4 SCSMR4 WSMR4	---	---	21.2	25.2	22.2	26.2	23.0	26.9	23.9	27.9	24.7	28.7	---	---	---	---
MM5A	SMR5 SCSMR5 WSMR5	---	---	22.7	26.6	23.7	27.6	24.4	28.4	25.4	29.4	26.2	30.1	27.2	31.1	---	---
MM6A	SMR6 SCSMR6 WSMR6	---	---	25.9	29.7	26.9	30.7	27.6	31.4	28.6	32.4	29.4	33.2	30.4	34.2	---	---
MM7	SMR7 SCSMR7 WSMR7	---	---	30.6	34.4	31.6	35.4	32.4	36.2	33.4	37.2	34.1	37.9	35.1	38.9	36.1	40.0
MM8	SMR8 SCSMR8 WSMR8	---	---	---	---	---	---	35.5	40.5	36.4	41.2	37.2	42.2	38.2	43.2	39.2	44.2
MM9	SMR9 SCSMR9 WSMR9	---	---	---	---	---	---	38.0	43.0	39.0	44.0	39.8	44.7	40.7	45.7	41.7	46.7
MM10	SMR10 SCSMR10	---	---	---	---	---	---	---	---	42.6	47.5	43.3	48.2	44.3	49.2	45.3	50.2

Tapered Bushing Kits



- » Sized for WorldWide shaft mount reducers
- » Interchangeable with other manufacturers
- » Fast and simple installation
- » Tapered support on both sides of the reducer
- » Includes fastening bolts and a full length shaft key

Box Size	Bushing Size (in.)	Model Number	List Price
2	1 1/4	2WTBK-1.14	\$148.26
	1 5/16	2WTBK-1.516	
	1 3/8	2WTBK-1.38	
	1 7/16	2WTBK-1.716	
	1 1/2	2WTBK-1.12	
	1 5/8	2WTBK-1.58	
	1 11/16	2WTBK-1.1116	
	1 3/4	2WTBK-1.34	
3	1 15/16	2WTBK-1.1516	\$182.44
	1 11/16	3WTBK-1.1116	
	1 3/4	3WTBK-1.34	
	1 15/16	3WTBK-1.1516	
	2	3WTBK-2	
4	2 3/16	3WTBK-2.316	\$251.50
	1 15/16	4WTBK-1.1516	
	2	4WTBK-2	
	2 3/16	4WTBK-2.316	
	2 1/4	4WTBK-2.14	
5	2 7/16	4WTBK-2.716	\$346.45
	2 3/16	5WTBK-2.316	
	2 7/16	5WTBK-2.716	
	2 1/2	5WTBK-2.12	
	2 11/16	5WTBK-2.1116	
6	2 15/16	5WTBK-2.1516	\$450.70
	2 1/2	6WTBK-2.12	
	2 11/16	6WTBK-2.1116	
	2 15/16	6WTBK-2.1516	
	3	6WTBK-3	
7	3 7/16	6WTBK-3.716	\$606.01
	2 7/16	7WTBK-2.716	
	2 11/16	7WTBK-2.1116	
	2 15/16	7WTBK-2.1516	
	3	7WTBK-3	
8	3 3/16	7WTBK-3.316	\$734.79
	3 7/16	7WTBK-3.716	
	3 15/16	7WTBK-3.1516	
	2 15/16	8WTBK-2.1516	
	3 7/16	8WTBK-3.716	
9	3 15/16	8WTBK-3.1516	\$863.56
	4 3/16	8WTBK-4.316	
	4 7/16	8WTBK-4.716	
	3 7/16	9WTBK-3.716	
	3 15/16	9WTBK-3.1516	
10	4 7/16	9WTBK-4.716	\$991.15
	4 15/16	9WTBK-4.1516	
	3 15/16	10WTBK-3.1516	
	4 7/16	10WTBK-4.716	

Torque Arms



- » Included with every shaft mount reducer
- » Heavy gauge steel construction
- » Machine precision ground interlocking parts for easy and accurate tensioning and tightening
- » SMR torque arms are compatible with the Original SMR series only.
- » WSMR torque arms are compatible with the Ultimate WSMR series and the Eliminator SCSMR series. The SCSMR10-TA is compatible with the SCSMR10 only.

Box Size	Model Number	List Price	Model Number	List Price
2	SMR2-TA	\$69.33	WSMR2-TA	\$105.09
3	SMR3-TA	\$69.33	WSMR3-TA	\$105.09
4	SMR4-TA	\$123.89	WSMR4-TA	\$123.89
5	SMR5-TA	\$123.89	WSMR5-TA	\$136.06
6	SMR6-TA	\$185.20	WSMR6-TA	\$243.36
7	SMR7-TA	\$362.64	WSMR7-TA	\$389.38
8	SMR8-TA	\$458.52	WSMR8-TA	\$625.00
9	SMR9-TA	\$458.52	WSMR9-TA	\$625.00
10	SMR10-TA	\$547.01	SCSMR10-TA	\$797.64

Original SMR Rebuild Kits

Rebuild Kit is compatible with the Original SMR Series.



Kits Include (Sold As Kit Only):

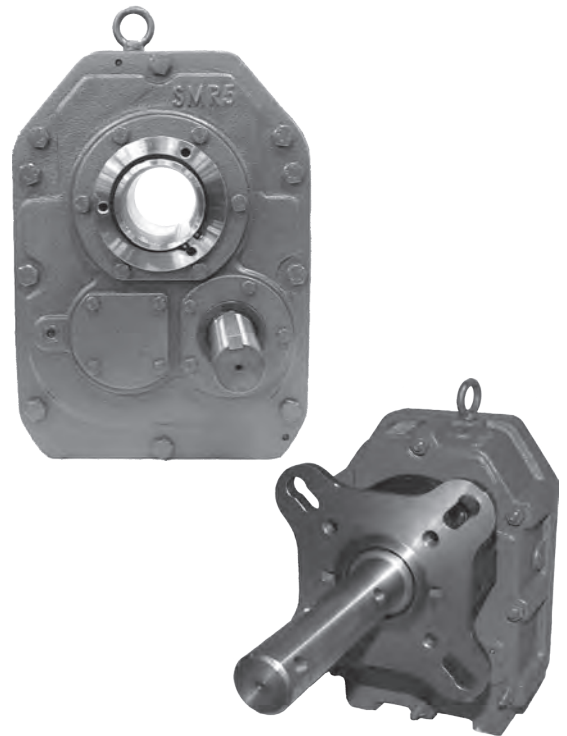
- » High speed input shaft
- » First gear reduction gear
- » Input bearings
- » Input seal
- » Output seals

Box Size	Ratio	Model Number	List Price
3	15:1	SMR315RBKIT	\$470.74
	25:1	SMR325RBKIT	
4	15:1	SMR415RBKIT	\$579.83
	25:1	SMR425RBKIT	
5	15:1	SMR515RBKIT	\$772.49
	25:1	SMR525RBKIT	
6	15:1	SMR615RBKIT	\$1,040.74
	25:1	SMR625RBKIT	
7	15:1	SMR715RBKIT	\$1,279.87
	25:1	SMR725RBKIT	
8	15:1	SMR815RBKIT	\$1,576.33
	25:1	SMR825RBKIT	
9	15:1	SMR915RBKIT	\$2,018.81
	25:1	SMR925RBKIT	
10	15:1	SMR1015RBKIT	\$3,378.32
	25:1	SMR1025RBKIT	

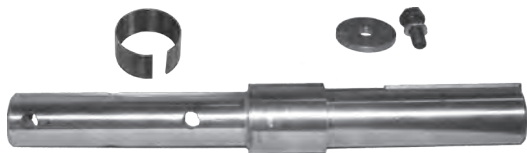
Screw Conveyor Components for Eliminator SCSMR & Ultimate WSMR Series Reducers

Product Specifications (for screw conveyor applications)

- » 9:1, 15:1 and 25:1 ratios
- » Box sizes 2 - 6
- » Heavy duty FCD45 cast iron housing for corrosion resistance
- » CEMA adapter flange bolt-on design allows for easy mounting
- » Drive shaft machined from high strength alloy steel
- » Hardened gears for long-life, A.G.M.A. rated class 11
- » Double lip seal and braided felt seal installed
- » Flat bottom with four (4) tapped holes for additional mounting flexibility
- » Compatible with the Ultimate WSMR and Eliminator SCSMR series shaft mount reducers.



Screw Conveyor Drive Shafts



- » Machined from high tensile strength alloy steel
- » Conforms to CEMA standards
- » Three-hole design for easy installation onto screw

Screw Conveyor Flanges



- » Conforms to CEMA standards
- » Bolt-on design allows for easy mounting
- » Heavy duty FCD45 cast iron construction
- » Double lip seal and braided felt seal installed

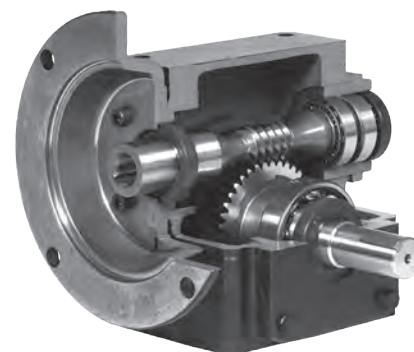
Box Size	Model Number	Drive Shaft Size (inches)	List Price
2	2SCDS-1.12	1 1/2"	\$293.19
	2SCDS-2	2"	\$293.19
	2SCDS-2.716	2 7/16"	\$370.02
	2SCDS-3	3"	\$370.02
3	3SCDS-1.12	1 1/2"	\$380.62
	3SCDS-2	2"	\$380.62
	3SCDS-2.716	2 7/16"	\$380.62
	3SCDS-3	3"	\$435.71
4	4SCDS-1.12	1 1/2"	\$443.99
	4SCDS-2	2"	\$443.99
	4SCDS-2.716	2 7/16"	\$443.99
	4SCDS-3	3"	\$487.28
5	4SCDS-3.716	3 7/16"	\$517.15
	5SCDS-2	2"	\$552.87
	5SCDS-2.716	2 7/16"	\$552.87
	5SCDS-3	3"	\$552.87
6	5SCDS-3.716	3 7/16"	\$559.08
	6SCDS-2.716	2 7/16"	\$741.70
	6SCDS-3	3"	\$741.70
	6SCDS-3.716	3 7/16"	\$830.71

Box Size	Model Number	List Price
2	2SCF	\$276.08
3	3SCF	\$315.54
4	4SCF	\$364.26
5	5SCF	\$423.72
6	6SCF	\$542.87

HD Cast Iron Worm Gear Reducers: Overview

Product Specifications

- » 5:1 - 60:1 ratios
- » Box sizes (Center distances of 1.33" to 3.25")
- » One piece # FC20 all cast iron housing
- » Embedded double-lip oil seals
- » Double bearings used on both shaft ends
- » Anti-rust primer applied outside gearbox before top painting
- » S45C carbon steel shafts
- » AIBC3 aluminum - bronze gear
- » Interior oil channel guide directly and constantly lube bearings
- » Tapered roller bearing on output and input shafts
- » All angle - radiused mounting holes
- » Air dry special black paint
- » Shaft sleeve protects all shafts
- » Compact design
- » Units filled with Mobil #SHC634 synthetic oil for "A" position mounting
- » Adjust oil level for alternative mounting positions
- » Universally interchangeable
- » 1 year warranty



Flange Input
Shaft Output
Left Hand Output



Flange Input
Shaft Output
Right Hand Output



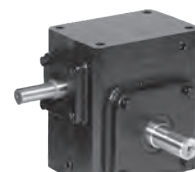
Flange Input
Shaft Output
Double End Output



Flange Input
Hollow Bore Output



Shaft Input
Shaft Output
Left Hand Output



Shaft Input
Shaft Output
Right Hand Output

HD Cast Iron Worm Gear Reducers: How To Order

» Please use the following table and nomenclature for ordering WorldWide Electric Worm Gear Reducers

Style	Box Size	Ratio	Output	Motor Frame*
S - Shaft Input	133	5:1	L - Left Hand	56C
F - Flange Input	154	10:1	R - Right Hand	145TC
	175	15:1	DE - Double End	182/4TC
	206	20:1	H - Hollow Bore	
	237	30:1		
	262	40:1		
	325	50:1		
		60:1		*Leave Blank for Shaft Input
HdR__	__	__/_	__	__

HD Cast Iron Worm Gear Reducers: Mechanical Ratings

Input Speed		1750 RPM									
Box Size	Ratio	Mechanical (1.0 SF)			Thermal			Efficiency (%)	O.H.L. (lbs.)	Output Shaft Thrust Load (lbs.)	Backlash (ft.) (Angular Minutes)
		Input HP	Output Torque (lbs. in.)	Output HP	Input HP	Output Torque (lbs. in.)	Output HP				
133	5:1	1.15	209	1.05	1.21	221	1.11	91	300	300	27
	10:1	0.77	247	0.66	0.75	240	0.64	86			
	15:1	0.63	283	0.5	0.53	238	0.42	80			
	20:1	0.5	276	0.39	0.48	266	0.38	78			
	30:1	0.47	336	0.31	0.31	221	0.20	66			
	40:1	0.38	356	0.25	0.30	282	0.19	65			
	50:1	0.29	312	0.17	0.26	282	0.15	59			
	60:1	0.23	261	0.12	0.22	252	0.12	53			
154	5:1	2.06	345	1.90	2.04	341	1.88	92	450	400	23
	10:1	1.29	411	1.13	1.03	327	0.9	88			
	15:1	1.11	518	0.95	0.78	363	0.67	86			
	20:1	0.86	509	0.70	0.65	384	0.53	81			
	30:1	0.62	504	0.46	0.48	388	0.36	74			
	40:1	0.51	503	0.35	0.4	397	0.27	68			
	50:1	0.47	565	0.31	0.34	407	0.22	66			
	60:1	0.39	502	0.23	0.29	373	0.17	59			
175	5:1	2.83	499	2.62	2.28	402	2.11	93	650	550	20
	10:1	1.57	515	1.38	1.36	445	1.19	88			
	15:1	1.24	554	1.06	1.13	506	0.96	85			
	20:1	1.02	596	0.85	0.98	572	0.81	83			
	30:1	0.78	666	0.56	0.69	533	0.50	72			
	40:1	0.74	714	0.49	0.59	558	0.39	66			
	50:1	0.5	575	0.32	0.52	590	0.33	64			
	60:1	0.38	469	0.2	0.47	580	0.27	57			
206	5:1	3.62	685	3.33	2.57	486	2.36	92	700	750	17
	10:1	2.77	935	2.5	2.10	708	1.89	90			
	15:1	2.09	1002	1.78	1.40	673	1.20	85			
	20:1	1.57	914	1.29	1.17	681	0.96	82			
	30:1	1.65	1310	1.21	0.76	606	0.56	73			
	40:1	1.09	1120	0.77	0.71	726	0.50	71			
	50:1	0.74	830	0.46	0.54	606	0.33	62			
	60:1	0.6	750	0.35	0.48	606	0.28	58			
237	5:1	4.57	798	4.02	3.56	630	3.31	93	900	900	17
	10:1	3.47	1158	3.09	2.24	746	1.99	89			
	15:1	2.64	1249	2.22	1.55	732	1.30	84			
	20:1	2.06	1195	1.69	1.36	791	1.12	82			
	30:1	1.82	1507	1.39	1.02	847	0.78	76			
	40:1	1.45	1483	1.02	0.83	845	0.58	71			
	50:1	1.32	1527	0.84	0.67	779	0.43	64			
	60:1	0.86	1149	0.53	0.63	844	0.39	61			
262	5:1	5.24	924	4.86	4.32	761	4.00	93	1000	1000	17
	10:1	4.17	1445	3.74	3.06	1061	2.75	90			
	15:1	3.22	1577	2.81	2.47	1212	2.16	87			
	20:1	2.67	1563	2.21	1.84	1078	1.53	83			
	30:1	2.22	1827	1.68	1.30	1072	0.99	76			
	40:1	1.85	1919	1.32	1.11	1153	0.80	72			
	50:1	1.37	1658	0.92	0.95	1152	0.64	67			
	60:1	1.16	1670	0.77	0.94	1346	0.62	66			
325	5:1	9.72	1724	9.06	6.93	1228	6.46	93	1200	1100	15
	10:1	7.19	2419	6.46	4.63	1558	4.16	90			
	15:1	5.45	2611	4.65	3.19	1527	2.72	85			
	20:1	4.74	2875	4.07	3.31	2011	2.85	86			
	30:1	3.66	3045	2.8	2.00	1661	1.53	77			
	40:1	3.35	3692	2.55	1.96	2156	1.49	76			
	50:1	2.49	3413	1.88	1.92	2637	1.46	76			
	60:1	2.03	3127	1.44	1.61	2476	1.14	71			

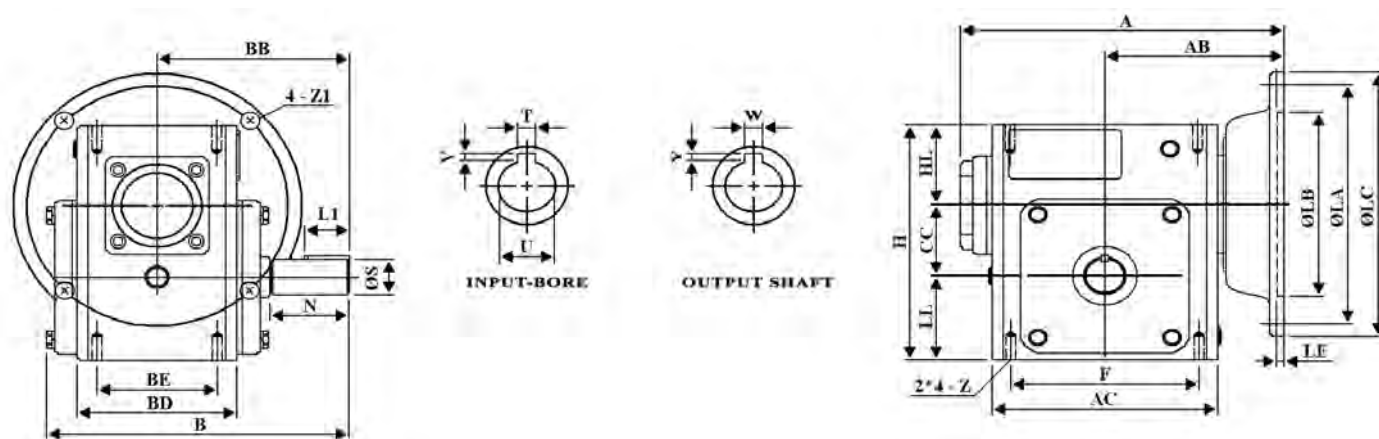
HD Cast Iron Worm Gear Reducers: Flange Input, Shaft Output

Ratio	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number Left Hand Output	Model Number Right Hand Output	Model Number Double End Output	List Price
5:1	350	1.33	56C	17	HdRF133-5/1-L-56C	HdRF133-5/1-R-56C	HdRF133-5/1-DE-56C	\$247.79
		1.54	56C	22	---	HdRF154-5/1-R-56C	HdRF154-5/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-5/1-L-56C	HdRF175-5/1-R-56C	HdRF175-5/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-5/1-L-56C	HdRF206-5/1-R-56C	HdRF206-5/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-5/1-L-56C	HdRF237-5/1-R-56C	HdRF237-5/1-DE-56C	\$457.96
		2.62	182/4TC	53	HdRF262-5/1-L-182/4TC	HdRF262-5/1-R-182/4TC	HdRF262-5/1-DE-182/4TC	\$493.36
		3.25	182/4TC	90	HdRF325-5/1-L-182/4TC	HdRF325-5/1-R-182/4TC	HdRF325-5/1-DE-182/4TC	\$696.90
10:1	175	1.33	56C	17	HdRF133-10/1-L-56C	HdRF133-10/1-R-56C	HdRF133-10/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-10/1-L-56C	HdRF154-10/1-R-56C	HdRF154-10/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-10/1-L-56C	HdRF175-10/1-R-56C	HdRF175-10/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-10/1-L-56C	HdRF206-10/1-R-56C	HdRF206-10/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-10/1-L-56C	HdRF237-10/1-R-56C	HdRF237-10/1-DE-56C	\$457.96
		2.37	145TC	53	HdRF237-10/1-L-145TC	HdRF237-10/1-R-145TC	HdRF237-10/1-145TC	\$457.96
		2.62	182/4TC	53	HdRF262-10/1-L-182/4TC	HdRF262-10/1-R-182/4TC	HdRF262-10/1-DE-182/4TC	\$493.36
15:1	120	1.33	56C	17	HdRF133-15/1-L-56C	HdRF133-15/1-R-56C	HdRF133-15/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-15/1-L-56C	HdRF154-15/1-R-56C	HdRF154-15/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-15/1-L-56C	HdRF175-15/1-R-56C	HdRF175-15/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-15/1-L-56C	HdRF206-15/1-R-56C	HdRF206-15/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-15/1-L-56C	HdRF237-15/1-R-56C	HdRF237-15/1-DE-56C	\$457.96
		2.62	56C	53	HdRF262-15/1-L-56C	HdRF262-15/1-R-56C	HdRF262-15/1-DE-56C	\$493.36
		2.62	145TC	53	HdRF262-15/1-L-145TC	HdRF262-15/1-R-145TC	HdRF262-15/1-DE-145TC	\$493.36
20:1	88	3.25	182/4TC	90	HdRF325-15/1-L-182/4TC	HdRF325-15/1-R-182/4TC	HdRF325-15/1-DE-182/4TC	\$696.90
		1.33	56C	17	HdRF133-20/1-L-56C	HdRF133-20/1-R-56C	HdRF133-20/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-20/1-L-56C	HdRF154-20/1-R-56C	HdRF154-20/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-20/1-L-56C	HdRF175-20/1-R-56C	HdRF175-20/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-20/1-L-56C	HdRF206-20/1-R-56C	HdRF206-20/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-20/1-L-56C	HdRF237-20/1-R-56C	HdRF237-20/1-DE-56C	\$457.96
		2.62	56C	53	HdRF262-20/1-L-56C	HdRF262-20/1-R-56C	HdRF262-20/1-DE-56C	\$493.36
30:1	58	2.62	145TC	53	HdRF262-20/1-L-145TC	HdRF262-20/1-R-145TC	HdRF262-20/1-DE-145TC	\$493.36
		3.25	182/4TC	90	HdRF325-20/1-L-182/4TC	HdRF325-20/1-R-182/4TC	HdRF325-20/1-DE-182/4TC	\$696.90
		1.33	56C	17	HdRF133-30/1-L-56C	HdRF133-30/1-R-56C	HdRF133-30/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-30/1-L-56C	HdRF154-30/1-R-56C	HdRF154-30/1-DE-56C	\$272.12
		1.75	56C	27	HdRF175-30/1-L-56C	HdRF175-30/1-R-56C	HdRF175-30/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-30/1-L-56C	HdRF206-30/1-R-56C	HdRF206-30/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-30/1-L-56C	HdRF237-30/1-R-56C	HdRF237-30/1-DE-56C	\$457.96
40:1	44	2.62	56C	50	HdRF262-30/1-L-56C	HdRF262-30/1-R-56C	HdRF262-30/1-DE-56C	\$493.36
		2.62	145TC	50	HdRF262-30/1-L-145TC	HdRF262-30/1-R-145TC	HdRF262-30/1-DE-145TC	\$493.36
		3.25	56C	87	HdRF325-30/1-L-56C	HdRF325-30/1-R-56C	HdRF325-30/1-DE-56C	\$696.90
		3.25	145TC	87	HdRF325-30/1-L-145TC	HdRF325-30/1-R-145TC	HdRF325-30/1-DE-145TC	\$696.90
		3.25	182/4TC	90	HdRF325-30/1-L-182/4TC	HdRF325-30/1-R-182/4TC	---	\$696.90
		1.33	56C	17	HdRF133-40/1-L-56C	HdRF133-40/1-R-56C	HdRF133-40/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-40/1-L-56C	HdRF154-40/1-R-56C	HdRF154-40/1-DE-56C	\$272.12
50:1	35	1.75	56C	27	HdRF175-40/1-L-56C	HdRF175-40/1-R-56C	HdRF175-40/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-40/1-L-56C	HdRF206-40/1-R-56C	HdRF206-40/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-40/1-L-56C	HdRF237-40/1-R-56C	HdRF237-40/1-DE-56C	\$457.96
		2.62	56C	50	HdRF262-40/1-L-56C	HdRF262-40/1-R-56C	HdRF262-40/1-DE-56C	\$493.36
		2.62	145TC	50	HdRF262-40/1-L-145TC	---	---	\$493.36
		3.25	56C	87	HdRF325-40/1-L-56C	HdRF325-40/1-R-56C	HdRF325-40/1-DE-56C	\$696.90
		3.25	145TC	87	HdRF325-40/1-L-145TC	HdRF325-40/1-R-145TC	HdRF325-40/1-DE-145TC	\$696.90
60:1	29	1.33	56C	17	HdRF133-50/1-L-56C	HdRF133-50/1-R-56C	HdRF133-50/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-50/1-L-56C	HdRF154-50/1-R-56C	HdRF154-50/1-DE-56C	\$272.12
		1.76	56C	27	HdRF175-50/1-L-56C	HdRF175-50/1-R-56C	HdRF175-50/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-50/1-L-56C	HdRF206-50/1-R-56C	HdRF206-50/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-50/1-L-56C	HdRF237-50/1-R-56C	HdRF237-50/1-DE-56C	\$457.96
		2.62	56C	50	HdRF262-50/1-L-56C	HdRF262-50/1-R-56C	HdRF262-50/1-DE-56C	\$493.36
		3.25	56C	87	HdRF325-50/1-L-56C	HdRF325-50/1-R-56C	HdRF325-50/1-DE-56C	\$696.90
60:1	29	3.25	145TC	87	HdRF325-50/1-L-145TC	HdRF325-50/1-R-145TC	HdRF325-50/1-DE-145TC	\$696.90
		1.33	56C	17	HdRF133-60/1-L-56C	HdRF133-60/1-R-56C	HdRF133-60/1-DE-56C	\$247.79
		1.54	56C	22	HdRF154-60/1-L-56C	HdRF154-60/1-R-56C	HdRF154-60/1-DE-56C	\$272.12
60:1	29	1.75	56C	27	HdRF175-60/1-L-56C	HdRF175-60/1-R-56C	HdRF175-60/1-DE-56C	\$299.78
		2.06	56C	32	HdRF206-60/1-L-56C	HdRF206-60/1-R-56C	HdRF206-60/1-DE-56C	\$380.53
		2.37	56C	38	HdRF237-60/1-L-56C	HdRF237-60/1-R-56C	HdRF237-60/1-DE-56C	\$457.96
		2.62	56C	50	HdRF262-60/1-L-56C	HdRF262-60/1-R-56C	HdRF262-60/1-DE-56C	\$493.36
		3.25	56C	87	HdRF325-60/1-L-56C	HdRF325-60/1-R-56C	HdRF325-60/1-DE-56C	\$696.90
		3.25	145TC	87	HdRF325-60/1-L-145TC	HdRF325-60/1-R-145TC	HdRF325-60/1-DE-145TC	\$696.90

HD Cast Iron Worm Gear Reducers: Dimensions

Flange Input, Shaft Output, Left / Right Hand Output

2
HEAVY DUTY
CAST IRON REDUCERS

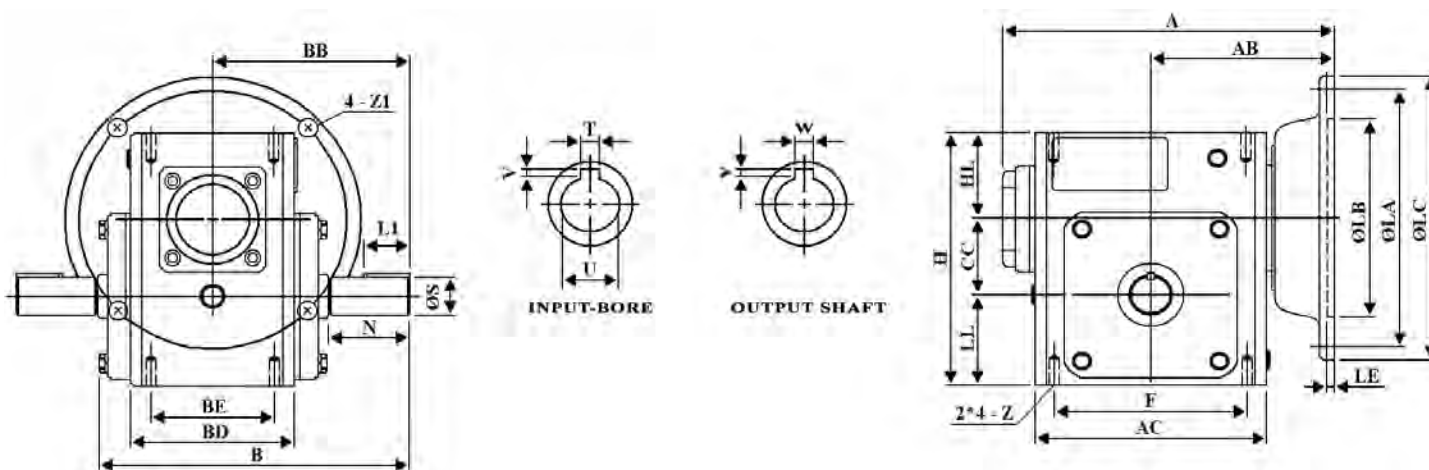


All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	N
133	56C	5.99	3.386	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718	2
154	56C	7.15	3.976	4.961	6.122	4.311	3.622	2.75	1.54	4.188	5.378	1.929	1.909	1.772
175	56C	7.29	4.035	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062	1.781
206	56C	7.95	4.37	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281	2.09
237	56C	8.71	4.705	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5	2.37
262	56C	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	145TC	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	182/4TC	10.57	6.24	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
325	56C	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	145TC	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	182/4TC	12.59	7.244	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25

All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.625	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	5.82
154	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.75	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	2	1.125	1/4 x 1/8	8.5	7.25	9	0.197	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	182/4TC	7/16 - 14	1.125	1/4 x 1/8	2.438	1.375	5/16 x 5/32	8.5	7.25	9	0.197	0.551	73.75

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: Dimensions Flange Input, Shaft Output, Double End Output



All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	N
133	56C	5.99	3.386	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718	2
175	56C	7.29	4.035	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062	1.781
206	56C	7.95	4.37	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281	2.09
237	56C	8.71	4.705	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5	2.37
262	56C	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	145TC	9.41	5.059	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
	182/4TC	10.57	6.24	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938	2.626
325	56C	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	145TC	11.42	6.063	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25
	182/4TC	12.59	7.244	9.016	11.014	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5	3.25

All listed dimensions in inches													
Box Size	NEMA Frame	Z (UNC)	INPUT BORE		OUTPUT SHAFT			FLANGE					Oil (oz.)
			U	T x V	L1	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.625	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	5.82
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	5.875	4.5	6.496	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	2	1.125	1/4 x 1/8	5.875	4.5	6.496	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	2	1.125	1/4 x 1/8	8.5	7.25	9	0.197	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	5.875	4.5	6.496	0.157	0.433	73.75
	182/4TC	7/16 - 14	1.125	1/4 x 1/8	2.438	1.375	5/16 x 5/32	8.5	7.25	9	0.197	0.551	73.75

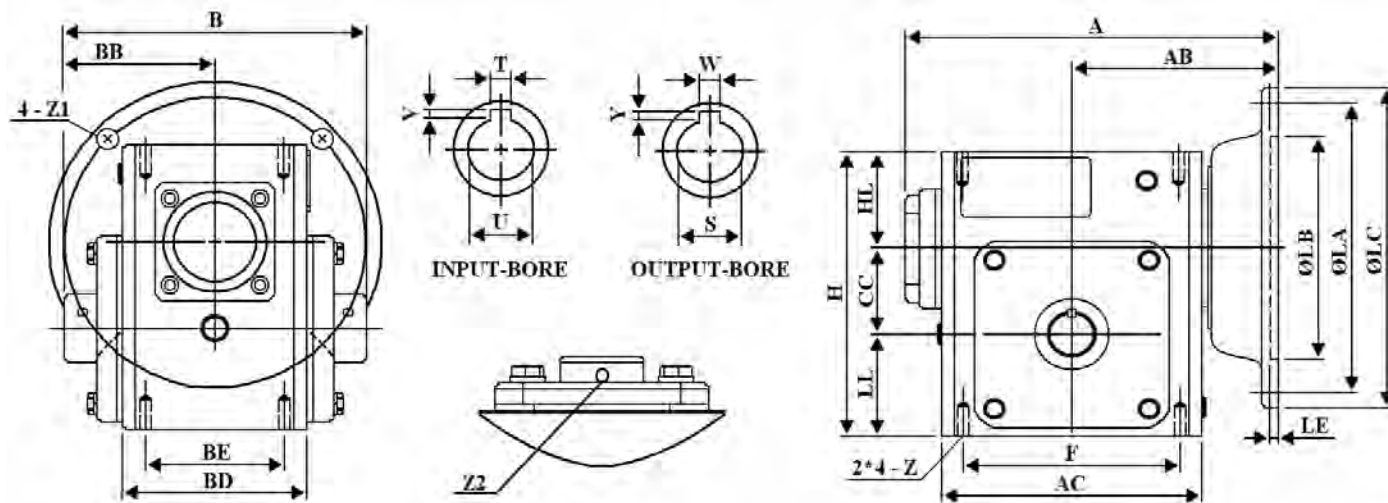
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

HD Cast Iron Worm Gear Reducers: *Flange Input, Hollow Bore Output*

2
 HEAVY DUTY
 CAST IRON REDUCERS

Ratio C	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
5:1	350	1.33	56C	17	HdRF133-5/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-5/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-5/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-5/1-H-56C	\$542.04
		2.62	182/4TC	53	HdRF262-5/1-H-182/4TC	\$667.04
		3.25	182/4TC	90	HdRF325-5/1-H-182/4TC	\$926.99
10:1	175	1.33	56C	17	HdRF133-10/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-10/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-10/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-10/1-H-56C	\$542.04
		2.62	182/4TC	53	HdRF262-10/1-H-182/4TC	\$667.04
		3.25	182/4TC	90	HdRF325-10/1-H-182/4TC	\$926.99
15:1	120	1.33	56C	17	HdRF133-15/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-15/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-15/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-15/1-H-56C	\$542.04
		2.62	56C	53	HdRF262-15/1-H-56C	\$667.04
		2.62	145TC	53	HdRF262-15/1-H-145TC	\$667.04
20:1	88	3.25	182/4TC	90	HdRF325-15/1-H-182/4TC	\$926.99
		1.33	56C	17	HdRF133-20/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-20/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-20/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-20/1-H-56C	\$542.04
		2.62	56C	53	HdRF262-20/1-H-56C	\$667.04
30:1	58	2.62	145TC	53	HdRF262-20/1-H-145TC	\$667.04
		3.25	182/4TC	90	HdRF325-20/1-H-182/4TC	\$926.99
		1.33	56C	17	HdRF133-30/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-30/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-30/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-30/1-H-56C	\$542.04
40:1	44	2.62	56C	50	HdRF262-30/1-H-56C	\$667.04
		2.62	145TC	50	HdRF262-30/1-H-145TC	\$667.04
		3.25	56C	87	HdRF325-30/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-30/1-H-145TC	\$926.99
		1.33	56C	17	HdRF133-40/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-40/1-H-56C	\$396.02
50:1	35	2.06	56C	32	HdRF206-40/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-40/1-H-56C	\$542.04
		2.62	56C	50	HdRF262-40/1-H-56C	\$667.04
		3.25	56C	87	HdRF325-40/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-40/1-H-145TC	\$926.99
		1.33	56C	17	HdRF133-50/1-H-56C	\$334.07
60:1	29	1.76	56C	27	HdRF175-50/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-50/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-50/1-H-56C	\$542.04
		2.62	56C	50	HdRF262-50/1-H-56C	\$667.04
		3.25	56C	87	HdRF325-50/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-50/1-H-145TC	\$926.99
		1.33	56C	17	HdRF133-60/1-H-56C	\$334.07
		1.75	56C	27	HdRF175-60/1-H-56C	\$396.02
		2.06	56C	32	HdRF206-60/1-H-56C	\$474.56
		2.37	56C	38	HdRF237-60/1-H-56C	\$542.04
		2.62	56C	50	HdRF262-60/1-H-56C	\$667.04
		3.25	56C	87	HdRF325-60/1-H-56C	\$926.99
		3.25	145TC	87	HdRF325-60/1-H-145TC	\$926.99
		3.25	182/4TC	90	HdRF325-60/1-H-182/4TC	\$926.99

HD Cast Iron Worm Gear Reducers: Dimensions Flange Input, Hollow Bore Output



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HEAVY DUTY
CAST IRON REDUCERS

All listed dimensions in inches														
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL	Z2
133	56C	5.98	3.386	3.78	4.44	2.218	2.835	2	1.333	3.25	4.656	1.605	1.718	#10 - 32 UNF x 1/4
175	56C	7.28	4.035	5.059	6.18	3.091	3.563	2.75	1.75	4.19	5.75	1.938	2.062	#10 - 32 UNF x 1/4
206	56C	7.95	4.37	5.748	6.44	3.219	3.819	2.88	2.062	5	6.375	2.032	2.281	1/4 - 28 UNF x 3/8
237	56C	8.68	4.705	6.378	6.44	3.22	4.055	2.88	2.375	5	6.937	2.062	2.5	1/4 - 28 UNF x 3/8
262	56C	9.41	5.059	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
	145TC	9.41	5.059	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
	182/4TC	10.59	6.24	7.165	7	3.5	4.68	3.375	2.625	6.38	8	2.437	2.938	1/4 - 28 UNF x 3/8
325	56C	11.42	6.063	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8
	145TC	11.42	6.063	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8
	182/4TC	12.6	7.244	9.016	8.76	4.38	5.748	4	3.25	7.5	9.375	2.625	3.5	5/16 - 24 UNF x 3/8

All listed dimensions in inches												
Box Size	NEMA Frame	Z (UNC)	INPUT BORE				FLANGE					Oil (oz.)
			U	T x V	S	W x Y	LA	LB	LC	LE	Z1	
133	56C	5/16 - 18	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	4.5	6.5	0.157	0.433	5.82
175	56C	5/16 - 18	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	6.5	0.157	0.433	11.64
206	56C	3/8 - 16	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	0.157	0.433	19.41
237	56C	3/8 - 16	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	0.157	0.433	24.07
262	56C	3/8 - 16	0.625	3/16 x 3/32	1.437	3/8 x 3/16	5.875	4.5	6.5	0.157	0.433	34.55
	145TC	3/8 - 16	0.875	3/16 x 3/32	1.437	3/8 x 3/16	5.875	4.5	6.5	0.157	0.433	34.55
	182/4TC	3/8 - 16	1.125	1/4 x 1/8	1.437	3/8 x 3/16	7.25	8.5	9	0.2	0.551	34.55
325	56C	7/16 - 14	0.625	3/16 x 3/32	1.937	1/2 x 1/4	5.875	4.5	6.5	0.157	0.433	73.75
	145TC	7/16 - 14	0.875	3/16 x 3/32	1.937	1/2 x 1/4	5.875	4.5	6.5	0.157	0.433	73.75
	1842/TC	7/16 - 14	1.125	1/4 x 1/8	1.937	1/2 x 1/4	7.25	8.5	9	0.2	0.551	73.75

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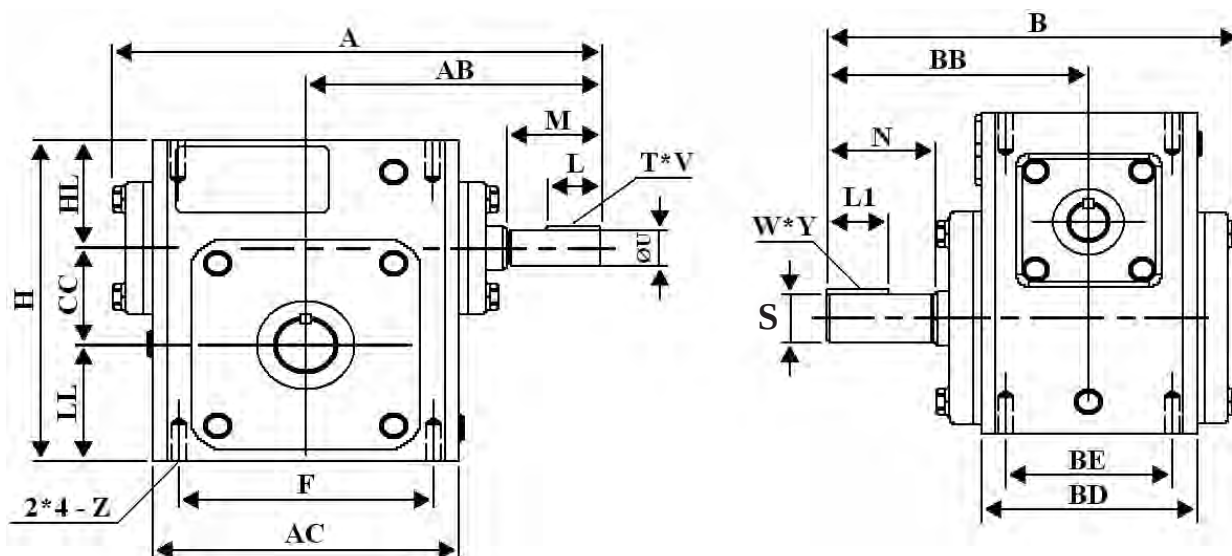
HD Cast Iron Worm Gear Reducers: *Shaft Input, Shaft Output*

2
 HEAVY DUTY
 CAST IRON REDUCERS

Ratio C	Output RPM @ 1800 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number Left Hand Output	Model Number Right Hand Output	List Price
5:1	350	1.33	56C	17	HdRS133-5/1-L	HdRS133-5/1-R	\$213.50
		1.75	56C	27	HdRS175-5/1-L	HdRS175-5/1-R	\$257.74
		2.06	56C	32	HdRS206-5/1-L	HdRS206-5/1-R	\$308.63
		2.37	56C	38	HdRS237-5/1-L	HdRS237-5/1-R	\$353.98
		2.62	182/4TC	53	HdRS262-5/1-L	HdRS262-5/1-R	\$434.73
		3.25	182/4TC	90	HdRS325-5/1-L	HdRS325-5/1-R	\$612.83
10:1	175	1.33	56C	17	HdRS133-10/1-L	HdRS133-10/1-R	\$213.50
		1.54	56C	22	HdRS154-10/1-L	---	\$235.62
		1.75	56C	27	HdRS175-10/1-L	HdRS175-10/1-R	\$257.74
		2.06	56C	32	HdRS206-10/1-L	HdRS206-10/1-R	\$308.63
		2.37	56C	38	HdRS237-10/1-L	HdRS237-10/1-R	\$353.98
		2.62	182/4TC	53	HdRS262-10/1-L	HdRS262-10/1-R	\$434.73
15:1	120	2.62	182/4TC	53	HdRS262-10/1-L	HdRS262-10/1-R	\$434.73
		3.25	182/4TC	90	HdRS325-10/1-L	HdRS325-10/1-R	\$612.83
		1.33	56C	17	HdRS133-15/1-L	HdRS133-15/1-R	\$213.50
		1.75	56C	27	HdRS175-15/1-L	HdRS175-15/1-R	\$257.74
		2.06	56C	32	HdRS206-15/1-L	HdRS206-15/1-R	\$308.63
		2.37	56C	38	HdRS237-15/1-L	HdRS237-15/1-R	\$353.98
20:1	88	2.62	56C/145TC	53	HdRS262-15/1-L	HdRS262-15/1-R	\$434.73
		3.25	182/4TC	90	HdRS325-15/1-L	HdRS325-15/1-R	\$612.83
		1.33	56C	17	HdRS133-20/1-L	HdRS133-20/1-R	\$213.50
		1.54	56C	22	HdRS154-20/1-L	---	\$235.62
		1.75	56C	27	HdRS175-20/1-L	HdRS175-20/1-R	\$257.74
		2.06	56C	32	HdRS206-20/1-L	HdRS206-20/1-R	\$308.63
30:1	58	2.37	56C	38	HdRS237-20/1-L	HdRS237-20/1-R	\$353.98
		2.62	56C/145TC	53	HdRS262-20/1-L	HdRS262-20/1-R	\$434.73
		3.25	182/4TC	90	HdRS325-20/1-L	HdRS325-20/1-R	\$612.83
		1.33	56C	17	HdRS133-30/1-L	HdRS133-30/1-R	\$213.50
		1.75	56C	27	HdRS175-30/1-L	HdRS175-30/1-R	\$257.74
		2.06	56C	32	HdRS206-30/1-L	HdRS206-30/1-R	\$308.63
40:1	44	2.37	56C	38	HdRS237-30/1-L	HdRS237-30/1-R	\$353.98
		2.62	56C/145TC	50	HdRS262-30/1-L	HdRS262-30/1-R	\$434.73
		3.25	56C/145TC	87	HdRS325-30/1-L	HdRS325-30/1-R	\$612.83
		1.33	56C	17	HdRS133-40/1-L	HdRS133-40/1-R	\$213.50
		1.54	56C	22	HdRS154-40/1-L	---	\$235.62
		1.75	56C	27	HdRS175-40/1-L	HdRS175-40/1-R	\$257.74
50:1	35	2.06	56C	32	HdRS206-40/1-L	HdRS206-40/1-R	\$308.63
		2.37	56C	38	HdRS237-40/1-L	HdRS237-40/1-R	\$353.98
		2.62	56C	50	HdRS262-40/1-L	HdRS262-40/1-R	\$434.73
		3.25	56C/145TC	87	HdRS325-40/1-L	HdRS325-40/1-R	\$612.83
		1.33	56C	17	HdRS133-50/1-L	HdRS133-50/1-R	\$213.50
		1.76	56C	27	HdRS175-50/1-L	HdRS175-50/1-R	\$257.74
60:1	29	2.06	56C	32	HdRS206-50/1-L	HdRS206-50/1-R	\$308.63
		2.37	56C	38	HdRS237-50/1-L	HdRS237-50/1-R	\$353.98
		2.62	56C	50	HdRS262-50/1-L	HdRS262-50/1-R	\$434.73
		3.25	56C/145TC	87	HdRS325-50/1-L	HdRS325-50/1-R	\$612.83
		1.33	56C	17	HdRS133-60/1-L	HdRS133-60/1-R	\$213.50
		1.75	56C	27	HdRS175-60/1-L	HdRS175-60/1-R	\$257.74
60:1	29	2.06	56C	32	HdRS206-60/1-L	HdRS206-60/1-R	\$308.63
		2.37	56C	38	HdRS237-60/1-L	HdRS237-60/1-R	\$353.98
		2.62	56C	50	HdRS262-60/1-L	HdRS262-60/1-R	\$434.73
		3.25	56C/145TC/182/4TC	87	HdRS325-60/1-L	HdRS325-60/1-R	\$612.83

HD Cast Iron Worm Gear Reducers: Dimensions

Shaft Input, Shaft Output



All listed dimensions in inches													
Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	H	HL	LL
133	56	6.45	3.907	3.78	6.067	4	2.835	2	1.333	3.25	4.656	1.605	1.718
175	56	8.06	4.872	5.059	6.831	4.311	3.563	2.75	1.75	4.188	5.75	1.938	2.062
206	56	8.65	5.128	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281
	145T	8.65	5.128	5.748	7.249	4.69	3.819	2.88	2.062	5	6.375	2.032	2.281
237	56	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
	145T	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
	182/4T	9.69	5.75	6.378	7.948	5.087	4.055	2.88	2.375	5	6.937	2.062	2.5
262	56	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
	145T	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
	182/4T	10.61	6.309	7.165	8.872	5.63	4.685	3.375	2.625	6.375	8	2.437	2.938
325	145T	12.74	7.441	9.016	11.01	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5
	182/4T	12.74	7.441	9.016	11.01	7.059	5.748	4	3.25	7.5	9.375	2.625	3.5

All listed dimensions in inches									
Box Size	NEMA Frame	Z (UNC)	INPUT SHAFT			OUTPUT SHAFT			Oil (oz.)
			L	U	T x V	L1	S	W x Y	
133	56	5/16 - 18	0.625	0.5	1/8 x 1/16	1	0.625	3/16 x 3/32	5.82
175	56	5/16 - 18	0.875	0.625	3/16 x 3/32	1	0.875	3/16 x 3/32	11.64
206	56	3/8 - 16	0.875	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	19.41
	145T	3/8 - 16	0.875	0.625	3/16 x 3/32	1.25	1	1/4 x 1/8	19.41
237	56	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07
	145T	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07
	182/4T	3/8 - 16	1	0.75	3/16 x 3/32	1.25	1.125	1/4 x 1/8	24.07
262	56	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55
	145T	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55
	182/4T	3/8 - 16	1	0.75	3/16 x 3/32	2	1.125	1/4 x 1/8	34.55
325	145T	7/16 - 14	1	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	73.75
	182/4T	7/16 - 14	1	0.875	3/16 x 3/32	2.438	1.375	5/16 x 5/32	73.75

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HD Cast Iron Worm Gear Reducers: Competitive Interchange

	Center Distance	1.33	1.75	2.06	2.37	2.62	3.25
	WorldWide Electric	HdRF133-L/R	HdRF175-L/R	HdRF206-L/R	HdRF237-L/R	HdRF262-L/R	HdRF325-L/R
C-FACE INPUT SHAFT OUTPUT 	Alling Lander	13UF	17UF	20UF	23UF	26UF	32UF
	Baldor	F913	F918	F921	F924	F926	F932
	Boston	F713	F718	F721	F724	F726	F732
	Browning - Raider	Q133	Q175	Q206	Q237	Q262	Q325
	Dodge - Tigear	Q133	Q175	Q200	—	Q262	—
	Electra *	MSC13	MSC17	MSC21	—	MSC26	—
	Falk - Omnibox	1133WBM	1175WBM	1206WBM	1238WBM	1262WBM	1325WBM
	Grove (New)	BMQ213	BMQ218	BMQ220	BMQ224	BMQ226	BMQ232
	Grove (Old)	BMQ1133	BMQ1175	BMQ1206	BMQ1238	BMQ1262	BMQ1325
	Hub City *	134	184	214	—	264	324
	Leeson	BMQ613	BMQ618	BMQ621	BMQ624	BMQ626	BMQ632
	Morse Cobra *	13Q	18Q	21Q	—	26Q	—
	Morse Raider	713F	718F	721F	724F	726F	732F
	Ohio Gear	BMQ2133	BMQ2175	BMQ2206	BMQ2238	BMQ2262	BMQ2325
	Winsmith *	913MDN	917MDN	920MDN	924MDN	926MDN	—
C-FACE INPUT HOLLOW BORE OUTPUT 	WorldWide Electric	HdRF133-H	HdRF175-H	HdRF206-H	HdRF237-H	HdRF262-H	HdRF325-H
	Alling Lander	13YF	17YF	20YF	23YF	26YF	32YF
	Baldor	HF913	HF918	HF921	HF924	HF926	HF932
	Boston	HF713	HF718	HF721	HF724	HF726	HF732
	Browning - Raider	QH133	QH175	QH206	QH237	QH262	QH325
	Electra *	—	MHSC17	MHSC21	—	MHSC26	—
	Falk - Omnibox	1133WBQM	1175WBQM	1206WBQM	1238WBQM	1262WBQM	1325WBQM
	Grove (New)	HM213	HM218	HM220	HM224	HM226	HM232
	Grove (Old)	HM1133	HM1175	HM1206	HM1238	HM1262	HM1325
	Hub City *	—	185	215	—	265	325
	Leeson	HM613	HM618	HM621	HM624	HM626	HM632
	Morse Cobra *	13QH	18QH	21QH	—	26QH	—
	Morse Raider	713SF	718SF	721SF	724SF	726SF	732SF
	Ohio Gear	SM2133MQ	SM2175MQ	SM2206MQ	SM2238MQ	SM2262MQ	SM2325MQ
	Winsmith *	—	917MDSN	920MDSN	924MDSN	926MDSN	—
SHAFT INPUT SHAFT OUTPUT 	WorldWide Electric	HdRS133	HdRS175	HdRS206	HdRS237	HdRS262	HdRS325
	Alling Lander	13U	17U	20U	23U	26U	32U
	Baldor	S913	S918	S921	S924	S926	S932
	Boston	713	718	721	724	726	732
	Browning - Raider	U133	U175	U206	U237	U262	U325
	Dodge - Tigear	S133	S175	S200	—	S262	—
	Electra *	M13	M17	M21	—	M26	—
	Falk - Omnibox	1133WB	1175WB	1206WB	1238WB	1262WB	1325WB
	Grove (New)	B213	B218	B220	B224	B226	B232
	Grove (Old)	B1133	B1175	B1206	B1238	B1262	B1325
	Hub City *	131	181	211	—	261	321
	Leeson	B613	B618	B621	B624	B626	B632
	Morse Cobra *	13U	18U	21U	—	26U	—
	Morse Raider	713B	718B	721B	724B	726B	732B
	Ohio Gear	B2133	B2175	B2206	B2238	B2262	B2325
	Winsmith *	913DN	917DN	920DN	924DN	926DN	—

* WorldWide worm gearboxes are not dimensionally interchangeable with these manufacturers.

** WorldWide hollow bore worm gearboxes have only one output diameter bore available per center distance.

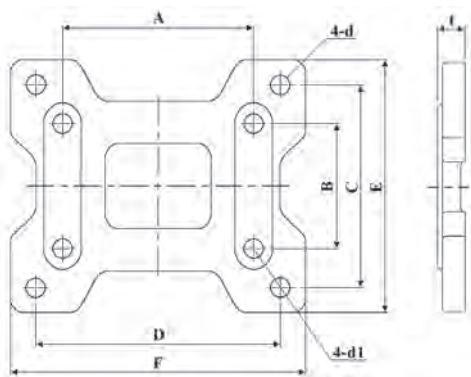
HD Cast Iron Worm Gear Reducers: Accessories and Parts

Mounting Bases

Product Specifications

- » Box Sizes 1.33 - 3.25
- » Includes Mounting Bolts

Box Size	Model Number	List Price
133	HdRBASE133	\$30.52
154	HdRBASE154	\$34.33
175	HdRBASE175	\$38.15
206	HdRBASE206	\$45.77
237	HdRBASE237	\$53.41
262	HdRBASE262	\$61.04
325	HdRBASE325	\$68.66



All dimensions in inches									
Box Size	A	B	C	D	E	F	t	d	d1
133	3.25	2.00	3.31	4.38	4.19	5.38	0.53	11/32	3/8
154	4.19	2.75	4.31	5.25	5.44	6.44	0.59	11/32	3/8
175	4.19	2.75	4.50	5.75	5.69	7.00	0.69	13/32	3/8
206	5.00	2.88	4.69	6.38	5.94	7.75	0.72	15/32	7/16
237	5.00	2.88	4.88	7.06	6.22	8.50	0.75	15/32	7/16
262	6.38	3.38	5.25	8.00	6.66	9.63	0.75	17/32	7/16
325	7.50	4.00	6.13	9.50	7.66	11.19	0.88	17/32	1/2

HD Cast Iron Worm Gear Reducers: Accessories and Parts

Miscellaneous Parts

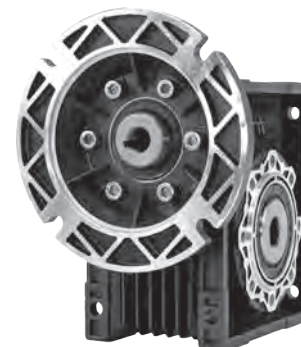
Model Number	Description	List Price
Breather Plugs		
HdR-BPBRASSALL	BREATHER PLUG HdRF133-HdRF262 / HdRS133-HdRS262	\$8.23
HdR-BPBRASS325	BREATHER PLUG HdRF325 / HdRS325	\$10.92
Bearings / Input		
HdR-PBA30203	INPUT BEARING HdRF133-HdRF206	\$34.21
HdR-PBA30204	INPUT BEARING HdRS133	\$29.05
HdR-PBA30205	INPUT BEARING HdRF237-HdRF262 / HdRS175-HdRS206	\$32.11
HdR-PBA30206	INPUT BEARING HdRF133-HdRF206 / HdRF325	\$36.89
HdR-PBA30207	INPUT BEARING HdRS325	\$46.45
Bearings / Output		
HdR-PBA30204	OUTPUT BEARING HdRF133 / HdRS133	\$29.05
HdR-PBA30206	OUTPUT BEARING HdRF175-HdRF206 / HdRS175-HdRS206	\$36.89
HdR-PBA30207	OUTPUT BEARING HdRF237-HdRF262 / HdRS237-HdRS262	\$46.45
HdR-PBA30208	OUTPUT BEARING HdRF325 / HdRS325	\$55.23
HdR-PBA32008	OUTPUT BEARING HdRF175 HOLLOW BORE	\$72.63
HdR-PBA32009	OUTPUT BEARING HdRF206 HOLLOW BORE	\$88.87
HdR-PBA32010	OUTPUT BEARING HdRF237 HOLLOW BORE	\$102.06
HdR-PBA32012	OUTPUT BEARING HdRF262 HOLLOW BORE	\$148.32
HdR-PBA32014	OUTPUT BEARING HdRF325 HOLLOW BORE	\$228.02
Input Flanges		
HdR-KFYG0331651	INPUT FLANGE HdRF133-HdRF154 (56C)	\$101.43
HdR-KFYG0451651	INPUT FLANGE HdRF175-HdRF206 (56C)	\$109.08
HdR-KFYG0611651	INPUT FLANGE HdRF237-HdRF262 (56C/145TC)	\$112.59
HdR-KFYG0612281	INPUT FLANGE HdRF262 (182/4TC)	\$208.52
HdR-KFYG0831651	INPUT FLANGE HdRF325 (56C/145TC)	\$128.54
HdR-KFYG0832281	INPUT FLANGE HdRF325 (182/4TC)	\$243.47
Oil Seals / Sealed		
HdR-PSS000040087	OIL SEAL / SEALED HdRF133-HdRF206	\$10.00
HdR-PSS000052079	OIL SEAL / SEALED HdRF237-HdRF262	\$16.15
HdR-PSS000062107	OIL SEAL / SEALED HdRF325	\$22.85

Model Number	Description	List Price
Oil Seals / Input		
HdR-PSS030042081	OIL SEAL / INPUT HdRF133-HdRF325 (56C)	\$12.99
HdR-PSS035042081	OIL SEAL / INPUT HdRF237-HdRF262 (145TC)	\$10.14
HdR-PSS045062081	OIL SEAL / INPUT HdRF262-HdRF325 (182/4TC)	\$10.14
HdR-PSS045062081	OIL SEAL / INPUT HdRF325 (145TC)	\$10.14
HdR-PSS017035071	OIL SEAL / INPUT HdRS133 (56C)	\$9.18
HdR-PSS020035081	OIL SEAL / INPUT HdRS175-HdRS206 (56C)	\$8.17
HdR-PSS025035061	OIL SEAL / INPUT HdRS237-HdRS262 (56C)	\$9.18
HdR-PSS030040071	OIL SEAL / INPUT HdRS325-(56C)	\$10.14
Oil Seals / Output		
HdR-PSS020032061	OIL SEAL / OUTPUT HdRF133 / HdRS133	\$9.05
HdR-PSS025045081	OIL SEAL / OUTPUT HdRF175 / HdRS175	\$13.81
HdR-PSS030047061	OIL SEAL / OUTPUT HdRF206 / HdRS206	\$15.71
HdR-PSS035050081	OIL SEAL / OUTPUT HdRF237 / HdRS237	\$12.85
HdR-PSS035050081	OIL SEAL / OUTPUT HdRF262 / HdRS262	\$14.76
HdR-PSS040055081	OIL SEAL / OUTPUT HdRF325 / HdRS325	\$12.85
HdR-PSS040062121	OIL SEAL / OUTPUT HdRF175 HOLLOW BORE	\$23.81
HdR-PSS045068121	OIL SEAL / OUTPUT HdRF206 HOLLOW BORE	\$27.61
HdR-PSS050072121	OIL SEAL / OUTPUT HdRF237 HOLLOW BORE	\$23.85
HdR-PSS060082121	OIL SEAL / OUTPUT HdRF262 HOLLOW BORE	\$30.00
HdR-PSS070095131	OIL SEAL / OUTPUT HdRF325 HOLLOW BORE	\$38.08
Set Screws		
HdR-H-PTCB10006F	SET SCREW HdRF133-HdRF175 / HdRS133-HdRS175	\$1.38
HdR-H-PTCB02009F	SET SCREW HdRF206-HdRF237 / HdRS206-HdRS237	\$1.38
HdR-H-PTCB02011F	SET SCREW HdRF262 / HdRS262	\$1.38
HdR-H-PTCBH2009F	SET SCREW HdRF325 / HdRS325	\$1.38

Aluminum Worm Gear Reducers: Product Overview

Product Specifications

- » 7.5:1 - 100:1 ratios
- » Box sizes (Center distances 30 mm - 90 mm)
- » Aluminum alloy housing for light weight design
- » Hardened worm shaft for increased durability
- » Two bearings on input and output shafts
- » NEMA motor input flanges
- » All units filled with synthetic oil (Mobil SHC634) for an "M1" position mounting
- » Adjust oil level for alternative mounting positions
- » Double lip oil seals prevent leakage
- » Multiple mounting holes for all angle mounts
- » Powder coat paint plan on external housing to resist corrosion
- » Hollow output bores with plug-in output shafts
- » 1 year warranty



Ratio	Output RPM @ 1750 RPM Input	WCD Center (mm)	HP	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
7.5:1	233	30	0.70	56C	3	CALM30-7.5/1-56C	\$168.14
		40	1.50	56C	5	CALM40-7.5/1-56C	\$206.62
		50	2.72	56C	8	CALM50-7.5/1-56C	\$285.19
		63	4.46	56C	13	CALM63-7.5/1-56C	\$369.26
		63	4.46	145TC	13	CALM63-7.5/1-145TC	\$369.26
		75	6.44	56C	19	CALM75-7.5/1-56C	\$534.26
		75	6.44	145TC	19	CALM75-7.5/1-145TC	\$534.26
		75	6.44	182/4TC	19	CALM75-7.5/1-182/4TC	\$534.26
		90	10.98	56C	28	CALM90-7.5/1-56C	\$611.24
		90	10.98	145TC	28	CALM90-7.5/1-145TC	\$611.24
		90	10.98	182/4TC	28	CALM90-7.5/1-182/4TC	\$611.24
10:1	175	30	0.54	56C	3	CALM30-10/1-56C	\$168.14
		40	1.21	56C	5	CALM40-10/1-56C	\$206.62
		50	2.12	56C	8	CALM50-10/1-56C	\$285.19
		63	3.52	56C	13	CALM63-10/1-56C	\$369.26
		63	3.52	145TC	13	CALM63-10/1-145TC	\$369.26
		75	5.20	56C	19	CALM75-10/1-56C	\$534.26
		75	5.20	145TC	19	CALM75-10/1-145TC	\$534.26
		75	5.20	182/4TC	19	CALM75-10/1-182/4TC	\$534.26
		90	8.92	56C	28	CALM90-10/1-56C	\$611.24
		90	8.92	145TC	28	CALM90-10/1-145TC	\$611.24
		90	8.92	182/4TC	28	CALM90-10/1-182/4TC	\$611.24
15:1	117	30	0.38	56C	3	CALM30-15/1-56C	\$168.14
		40	0.83	56C	5	CALM40-15/1-56C	\$206.62
		50	1.52	56C	8	CALM50-15/1-56C	\$285.19
		63	2.70	56C	13	CALM63-15/1-56C	\$369.26
		63	2.70	145TC	13	CALM63-15/1-145TC	\$369.26
		75	4.07	56C	19	CALM75-15/1-56C	\$534.26
		75	4.07	145TC	19	CALM75-15/1-145TC	\$534.26
		75	4.07	182/4TC	19	CALM75-15/1-182/4TC	\$534.26
		90	7.05	56C	28	CALM90-15/1-56C	\$611.24
		90	7.05	145TC	28	CALM90-15/1-145TC	\$611.24
		90	7.05	182/4TC	28	CALM90-15/1-182/4TC	\$611.24
20:1	88	30	0.28	56C	3	CALM30-20/1-56C	\$168.14
		40	0.63	56C	5	CALM40-20/1-56C	\$206.62
		50	1.14	56C	8	CALM50-20/1-56C	\$285.19
		63	2.06	56C	13	CALM63-20/1-56C	\$369.26
		63	2.06	145TC	13	CALM63-20/1-145TC	\$369.26

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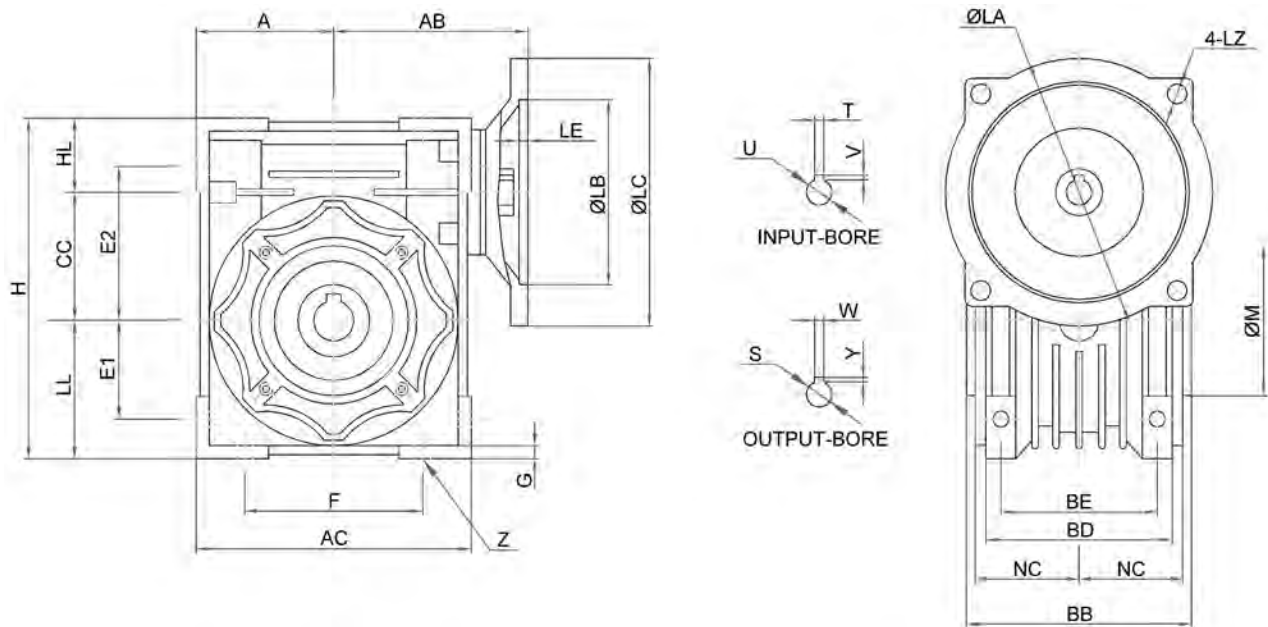
Aluminum Worm Gear Reducers: Product Overview

Ratio	Output RPM @ 1800 RPM Input	WCD Center (mm)	HP	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
20:1	88	75	3.24	56C	19	CALM75-20/1-56C	\$534.26
		75	3.24	145TC	19	CALM75-20/1-145TC	\$534.26
		90	5.33	56C	28	CALM90-20/1-56C	\$611.24
		90	5.33	145TC	28	CALM90-20/1-145TC	\$611.24
		90	5.33	182/4TC	28	CALM90-20/1-182/4TC	\$611.24
25:1	70	30	0.30	56C	3	CALM30-25/1-56C	\$168.14
		40	0.48	56C	5	CALM40-25/1-56C	\$206.62
		50	0.86	56C	8	CALM50-25/1-56C	\$285.19
		63	1.56	56C	13	CALM63-25/1-56C	\$369.26
		75	2.43	56C	19	CALM75-25/1-56C	\$534.26
		75	2.43	145TC	19	CALM75-25/1-145TC	\$534.26
		90	4.18	56C	28	CALM90-25/1-56C	\$611.24
		90	4.18	145TC	28	CALM90-25/1-145TC	\$611.24
30:1	58	30	0.25	56C	3	CALM30-30/1-56C	\$168.14
		40	0.53	56C	5	CALM40-30/1-56C	\$206.62
		50	0.94	56C	8	CALM50-30/1-56C	\$285.19
		63	1.64	56C	13	CALM63-30/1-56C	\$369.26
		75	2.41	56C	19	CALM75-30/1-56C	\$534.26
		75	2.41	145TC	19	CALM75-30/1-145TC	\$534.26
		90	4.21	56C	28	CALM90-30/1-56C	\$611.24
		90	4.21	145TC	28	CALM90-30/1-145TC	\$611.24
40:1	44	30	0.19	56C	3	CALM30-40/1-56C	\$168.14
		40	0.40	56C	5	CALM40-40/1-56C	\$206.62
		50	0.70	56C	8	CALM50-40/1-56C	\$285.19
		63	1.21	56C	13	CALM63-40/1-56C	\$369.26
		75	1.90	56C	19	CALM75-40/1-56C	\$534.26
		90	3.01	56C	28	CALM90-40/1-56C	\$611.24
		90	3.01	145TC	28	CALM90-40/1-145TC	\$611.24
50:1	35	30	0.15	56C	3	CALM30-50/1-56C	\$168.14
		40	0.31	56C	5	CALM40-50/1-56C	\$206.62
		50	0.56	56C	8	CALM50-50/1-56C	\$285.19
		63	0.99	56C	13	CALM63-50/1-56C	\$369.26
		75	1.47	56C	19	CALM75-50/1-56C	\$534.26
		90	2.36	56C	28	CALM90-50/1-56C	\$611.24
		90	2.36	145TC	28	CALM90-50/1-145TC	\$611.24
60:1	29	30	0.12	56C	3	CALM30-60/1-56C	\$168.14
		40	0.25	56C	5	CALM40-60/1-56C	\$206.62
		50	0.47	56C	8	CALM50-60/1-56C	\$285.19
		63	0.82	56C	13	CALM63-60/1-56C	\$369.26
		75	1.22	56C	19	CALM75-60/1-56C	\$534.26
		90	1.93	56C	28	CALM90-60/1-56C	\$611.24
80:1	22	40	0.18	56C	5	CALM40-80/1-56C	\$206.62
		50	0.35	56C	8	CALM50-80/1-56C	\$285.19
		63	0.60	56C	13	CALM63-80/1-56C	\$369.26
		75	0.91	56C	19	CALM75-80/1-56C	\$534.26
		90	1.27	56C	28	CALM90-80/1-56C	\$611.24
100:1	17.5	40	0.14	56C	5	CALM40-100/1-56C	\$206.62
		50	0.26	56C	8	CALM50-100/1-56C	\$285.19
		63	0.51	56C	13	CALM63-100/1-56C	\$369.26
		75	0.74	56C	19	CALM75-100/1-56C	\$534.26
		90	1.03	56C	28	CALM90-100/1-56C	\$611.24

Aluminum Worm Gear Reducers: Mechanical Ratings

Input Speed		1750 RPM					Output Shaft Thrust Load (lbs.)	Backlash (Angular Minutes) (')	
Box Size	Ratio	Mechanical (1.0 SF)			Efficiency (%)	O.H.L. (lbs.)		Min	Max
		Input HP	Output Torque (lbs. in.)	Output Speed					
30	7.5:1	0.70	160	233	85	143	29	13.8	28.8
	10:1	0.54	160	175	83	157	31	13.8	28.8
	15:1	0.38	160	117	78	180	36	13.8	28.8
	20:1	0.28	151	88	74	198	40	13.2	28.2
	25:1	0.30	185	70	69	213	43	13.2	27.0
	30:1	0.25	177	58	66	226	45	13.8	28.8
	40:1	0.19	160	44	60	249	50	13.2	28.2
	50:1	0.15	151	35	56	268	54	13.2	27.0
	60:1	0.12	134	29	52	285	57	12.6	25.8
40	7.5:1	1.50	353	233	87	274	55	11.4	24.0
	10:1	1.21	370	175	85	302	60	11.4	24.0
	15:1	0.83	370	117	83	346	69	11.4	24.0
	20:1	0.63	361	88	79	381	76	11.4	24.0
	25:1	0.48	328	70	76	410	82	10.8	21.0
	30:1	0.53	403	58	71	436	87	11.4	24.0
	40:1	0.40	378	44	66	479	96	11.4	24.0
	50:1	0.31	353	35	63	517	103	10.8	21.0
	60:1	0.25	319	29	59	549	110	11.4	21.6
	80:1	0.18	277	22	53	604	121	11.4	21.6
100:1	0.14	244	18	48	651	130	11.4	21.6	
50	7.5:1	2.72	647	233	88	377	75	8.4	19.2
	10:1	2.12	664	175	87	415	83	8.4	19.2
	15:1	1.52	681	117	83	475	95	8.4	19.2
	20:1	1.14	656	88	80	522	104	6.6	17.4
	25:1	0.86	597	70	77	563	113	7.2	17.4
	30:1	0.94	740	58	73	598	120	8.4	19.2
	40:1	0.70	689	44	68	658	132	6.6	17.4
	50:1	0.56	647	35	64	709	142	7.2	17.4
	60:1	0.47	605	29	60	753	151	6.6	16.2
	80:1	0.35	546	22	54	829	166	6.6	16.2
100:1	0.26	462	18	50	893	179	6.6	16.2	
63	7.5:1	4.46	1076	233	89	492	98	7.8	17.4
	10:1	3.52	1108	175	87	542	108	7.8	17.4
	15:1	2.70	1236	117	85	620	124	7.8	17.4
	20:1	2.06	1225	88	83	683	137	6.6	16.2
	25:1	1.56	1124	70	80	736	147	6.6	13.8
	30:1	1.64	1345	58	76	782	156	7.8	17.4
	40:1	1.21	1261	44	72	860	172	6.6	16.2
	50:1	0.99	1208	35	68	927	185	6.6	13.8
	60:1	0.82	1135	29	64	985	197	6.0	13.8
	80:1	0.60	1027	22	59	1084	217	6.0	13.8
100:1	0.51	992	18	54	1168	234	6.0	13.8	
75	7.5:1	6.44	1555	233	89	581	116	7.8	16.2
	10:1	5.20	1656	175	88	640	128	7.8	16.2
	15:1	4.07	1900	117	86	732	146	7.8	16.2
	20:1	3.24	1953	88	84	806	161	6.6	14.4
	25:1	2.43	1784	70	82	868	174	6.6	13.2
	30:1	2.41	2028	58	78	923	185	7.8	16.2
	40:1	1.90	2029	44	74	1015	203	6.6	14.4
	50:1	1.47	1881	35	71	1094	219	6.6	13.2
	60:1	1.22	1778	29	67	1162	232	6.0	12.6
	80:1	0.91	1632	22	62	1279	256	6.0	12.6
100:1	0.74	1517	18	57	1378	276	6.0	12.6	
90	7.5:1	10.98	2682	233	90	643	129	7.2	14.4
	10:1	8.92	2867	175	89	708	142	7.2	14.4
	15:1	7.05	3330	117	87	810	162	7.2	14.4
	20:1	5.33	3288	88	86	892	178	6.6	12.0
	25:1	4.18	3145	70	84	961	192	6.0	11.4
	30:1	4.21	3632	58	80	1021	204	7.2	14.4
	40:1	3.01	3330	44	77	1123	225	6.6	12.0
	50:1	2.36	3145	35	74	1210	242	6.0	11.4
	60:1	1.93	2960	29	71	1286	257	5.4	10.8
	80:1	1.27	2397	22	65	1416	283	5.4	10.8
100:1	1.03	2271	18	61	1525	305	5.4	10.8	

Aluminum Worm Gear Reducers: Dimensions



2

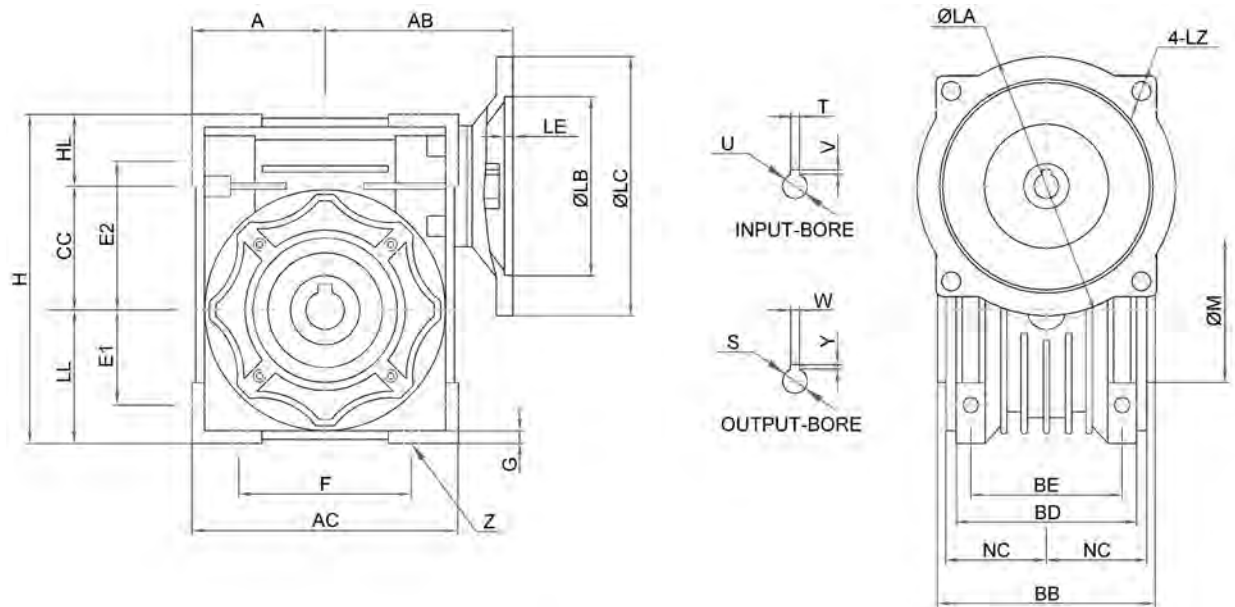
ALUMINUM WORM
GEAR REDUCERS

All listed dimensions in millimeters																
Box Size	NEMA Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	56C	40	70	80	63	56	44	30	27	44	54	5.5	97	27	40	55
40	56C	50	86	101	78	71	60	40	35	55	70	6.6	121	31.5	50	60
50	56C	60	94	121	92	85	70	50	40	64	80	7	144	34	60	70
63	56C	72	105	146	112	103	85	63	50	80	100	8	174	39	72	80
	145TC	72	105	146	112	103	85	63	50	80	100	8	174	39	72	80
75	56C	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
	145TC	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
	182/4TC	86	126	174	120	112	90	75	60	93	120	10	205	45	86	95
90	56C	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110
	145TC	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110
	182/4TC	103	143	208	140	130	100	90	70	102	140	11	238	45	103	110

Box Size	NEMA Frame	NC	Z	INPUT BORE (inches)		OUTPUT BORE (inches)		FLANGE (inches)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	56C	29	6.5	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	4.5	5.787	0.177	0.413
40	56C	36.5	6.5	0.625	3/16 x 3/32	0.75	3/16 x 3/32	5.875	4.5	5.787	0.157	0.413
50	56C	43.5	8.4	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	5.787	0.157	0.413
63	56C	53	8.5	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	5.787	0.177	0.413
	145TC	53	8.5	0.875	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	5.787	0.177	0.413
75	56C	57	11	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	5.787	0.157	0.413
	145TC	57	11	0.875	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	5.787	0.157	0.413
	182/4TC	57	11	1.125	1/4 x 1/8	1.25	1/4 x 1/8	7.25	8.5	9	0.217	0.413
90	56C	67	13	0.625	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	5.787	0.157	0.413
	145TC	67	13	0.875	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	5.787	0.157	0.413
	182/4TC	67	13	1.125	1/4 x 1/8	1.375	5/16 x 9/64	7.25	8.5	9	0.217	0.413

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Aluminum Worm Gear Reducers: Competitor Dimensional Comparison - Motovario



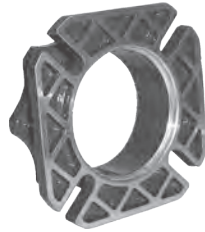
All listed dimensions in millimeters

Box Size	NEMA Frame	A	AB	AC	BB	BD	BE	CC	E1	E2	F	G	H	HL	LL	M
30	56C	40	67	80	63	56	44	30	27	44	54	5.5	97	27	40	55
40	56C	50	80	100	78	71	60	40	35	55	70	6.5	121.5	31.5	50	60
50	56C	60	90	120	92	85	70	50	40	64	80	7	144	34	60	70
63	56C	72	122	144	112	103	85	63	50	80	100	8	179	44	72	80
	145TC	72	122	144	112	103	85	63	50	80	100	8	179	44	72	80
75	56C	89	140	178	120	112	90	75	60	93	120	10	209	48	86	95
	145TC	89	140	178	120	112	90	75	60	93	120	10	209	48	86	95
	182/4TC	89	150	178	120	112	90	75	60	93	120	10	209	48	86	95
90	56C	103	158	206	140	130	100	90	70	102	140	11	247	54	103	110
	145TC	103	158	206	140	130	100	90	70	102	140	11	247	54	103	110
	182/4TC	103	168	206	140	130	100	90	70	102	140	11	247	54	103	110

Box Size	NEMA Frame	NC	Z	INPUT BORE (inches)		OUTPUT BORE (inches)		FLANGE (inches)				
				U	T x V	S	W x Y	LA	LB	LC	LE	LZ
30	56C	29	6.5	0.625	3/16 x 3/32	0.625	3/16 x 3/32	5.875	3	5.625	NL	0.413
40	56C	36.5	6.5	0.625	3/16 x 3/32	0.75	3/16 x 3/32	5.875	4.5	6.5	NL	0.413
50	56C	43.5	8.4	0.625	3/16 x 3/32	1	1/4 x 7/64	5.875	4.5	6.5	NL	0.413
63	56C	53	8.5	0.625	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	145TC	53	8.5	0.875	3/16 x 3/32	1.125	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
75	56C	57	11	0.625	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	145TC	57	11	0.875	3/16 x 3/32	1.25	1/4 x 1/8	5.875	4.5	6.5	NL	0.413
	182/4TC	57	11	1.125	1/4 x 1/8	1.25	1/4 x 1/8	7.25	8.5	9	NL	0.413
90	56C	67	13	0.625	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	6.5	NL	0.413
	145TC	67	13	0.875	3/16 x 3/32	1.375	5/16 x 9/64	5.875	4.5	6.5	NL	0.413
	182/4TC	67	13	1.125	1/4 x 1/8	1.375	5/16 x 9/64	7.25	8.5	9	NL	0.413

Motovario® dimensional data was derived from their Catalog_VSF_Nema_WEB_3012012111322.
Blue shaded cells indicate a dimensional difference. NL denotes ratings not listed.
All dimensions are in millimeters unless denoted in inches.

Aluminum Worm Gear Reducers: Accessories and Parts



Output Flanges

Box Size	Model Number	List Price
30	CALM30-OPF	\$21.49
40	CALM40-OPF	\$30.09
50	CALM50-OPF	\$35.38
63	CALM63-OPF	\$41.39
75	CALM75-OPF	\$54.04
90	CALM90-OPF	\$67.65

Output Flanges are FA style.
FB and FC style output flanges are available for order as non-stock items.



Drain Plugs

Box Size	Model Number	List Price
30	PJK10W	\$4.15
40	PJK10W	\$4.15
50	PJK10W	\$4.15
63	PJK16W	\$4.15
75	PJK16W	\$4.15
90	PJK16W	\$4.15

Single Output Shafts



Box Size	Model Number	List Price
30	CALM30-S	\$18.66
40	CALM40-S	\$21.60
50	CALM50-S	\$30.14
63	CALM63-S	\$34.37
75	CALM75-S	\$44.19
90	CALM90-S	\$57.04



Output Covers

Box Size	Model Number	List Price
30	CALM30-OPC	\$8.30
40	CALM40-OPC	\$8.30
50	CALM50-OPC	\$13.83
63	CALM63-OPC	\$13.83
75	CALM75-OPC	\$13.83
90	CALM90-OPC	\$13.83



Torque Arms

Box Size	Model Number	List Price
30	CALM30-TA	\$29.73
40	CALM40-TA	\$31.68
50	CALM50-TA	\$40.29
63	CALM63-TA	\$49.49
75	CALM75-TA	\$60.88
90	CALM90-TA	\$76.05

Double Output Shafts



Box Size	Model Number	List Price
30	CALM30-DS	\$24.55
40	CALM40-DS	\$29.46
50	CALM50-DS	\$42.28
63	CALM63-DS	\$49.46
75	CALM75-DS	\$62.40
90	CALM90-DS	\$79.03

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ALUMINUM WORM
GEAR REDUCERS

Stainless Steel Worm Gear Reducers: Product Overview

Product Specifications

- » 5:1 - 60:1 ratios
- » Box sizes (Center distances 1.75" - 3.25")
- » 304 Stainless Steel housing, covers and flange
- » Double-lipped VITON oil seals (at output)
- » Smooth, polished surfaces and etched nameplate
- » Internal bladder functions as a breather and effectively dispels heat
- » 15CrMo4 NEMA quill input with carburizing heat treatment
- » CuSn12Ni2 bronze alloy worm wheel with high efficiency gear tooth configuration
- » RoHS plastic covers supplied to fill unused mounting slots
- » O-ring provided on input flange to prevent moisture intrusion
- » Performance equivalent to other major brands
- » Units filled with Mobil CIBUS 460 H1 food grade lubricant
- » 1 year warranty



Ratio	Output RPM @ 1750 RPM Input	WCD Center (in.)	NEMA Motor Frame	Approx. Wt. (lbs.)	Model Number	List Price
5:1	350	1.75	56C	16	SSHdR175-5/1-H-56C-1.0	\$1,464.60
		2.06	56C	22	SSHdR206-5/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-5/1-H-56C-1.716	\$1,944.69
		2.62	145TC	39	SSHdR262-5/1-H-145TC-1.1516	\$2,528.76
		3.25	56C	66	SSHdR325-5/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-5/1-H-145TC-2.316	\$3,282.08
10:1	175	1.75	56C	16	SSHdR175-10/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-10/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-10/1-H-56C-1.716	\$1,817.48
		2.62	145TC	39	SSHdR262-10/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-10/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-10/1-H-145TC-2.316	\$3,282.08
15:1	120	1.75	56C	16	SSHdR175-15/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-15/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-15/1-H-56C-1.716	\$1,817.48
		2.62	145TC	39	SSHdR262-15/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-15/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-15/1-H-145TC-2.316	\$3,282.08
20:1	88	1.75	56C	16	SSHdR175-20/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-20/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-20/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-20/1-H-56C-1.1516	\$2,372.79
		2.62	145TC	39	SSHdR262-20/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-20/1-H-56C-2.316	\$3,282.08
30:1	58	1.75	56C	16	SSHdR175-30/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-30/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-30/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-30/1-H-56C-1.1516	\$2,372.79
		2.62	145TC	39	SSHdR262-30/1-H-145TC-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-30/1-H-56C-2.316	\$3,282.08
40:1	44	1.75	56C	16	SSHdR175-40/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-40/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-40/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-40/1-H-56C-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-40/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-40/1-H-145TC-2.316	\$3,282.08
50:1	35	1.75	56C	16	SSHdR175-50/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-50/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-50/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-50/1-H-56C-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-50/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-50/1-H-145TC-2.316	\$3,282.08
60:1	29	1.75	56C	16	SSHdR175-60/1-H-56C-1.0	\$1,368.36
		2.06	56C	22	SSHdR206-60/1-H-56C-1.716	\$1,493.36
		2.37	56C	28	SSHdR237-60/1-H-56C-1.716	\$1,817.48
		2.62	56C	39	SSHdR262-60/1-H-56C-1.1516	\$2,372.79
		3.25	56C	66	SSHdR325-60/1-H-56C-2.316	\$3,282.08
		3.25	145TC	66	SSHdR325-60/1-H-145TC-2.316	\$3,282.08

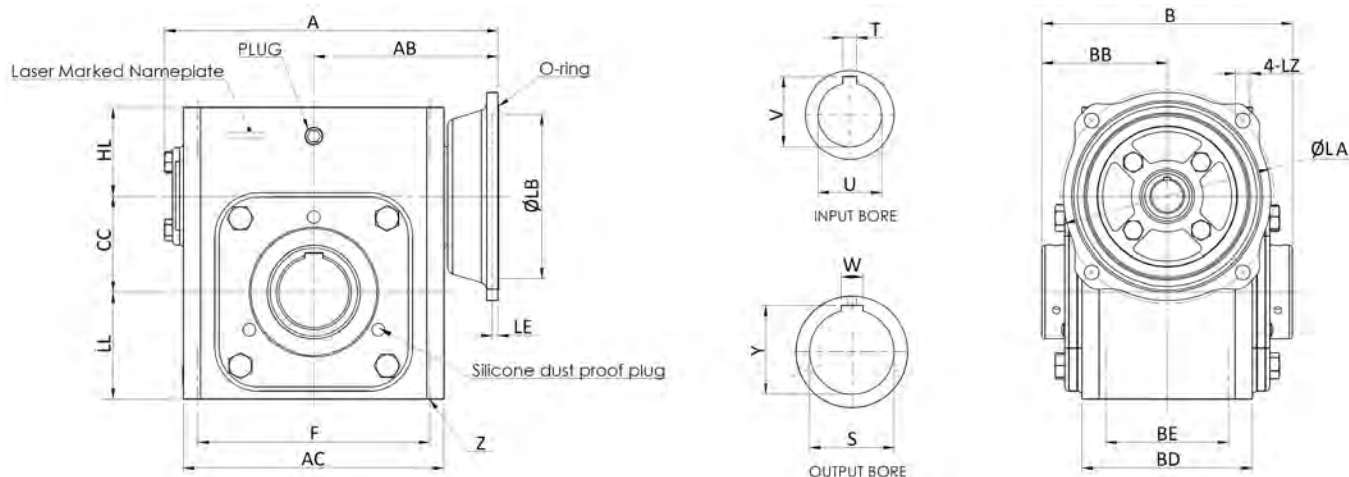
Stainless Steel Worm Gear Reducers: Mechanical Ratings

Input Speed: 1750 RPM											
Series Size		Mechanical			Thermal			Efficiency (%)	O.H.L. (lbs.)	Output Shaft Thrust Load (lbs.)	Backlash (Angular Min.) (')
Box Size	Ratio	Input HP	Output Torque (lbs. in.)	Output HP	Input HP	Output Torque (lbs. in.)	Output HP				
175	5:1	2.36	413	2.20	2.13	374	1.99	93	650	550	20
	10:1	1.52	492	1.38	1.52	492	1.38	91			
	15:1	1.09	503	0.94	1.02	472	0.88	86			
	20:1	0.85	524	0.71	0.85	524	0.71	84			
	30:1	0.65	529	0.49	0.60	483	0.45	76			
	40:1	0.57	595	0.42	0.53	558	0.39	73			
	50:1	0.44	564	0.32	0.44	564	0.32	72			
	60:1	0.31	455	0.21	0.31	455	0.21	68			
206	5:1	3.62	609	3.40	2.94	500	2.76	94	700	750	17
	10:1	2.47	831	2.25	1.96	667	1.78	91			
	15:1	1.80	860	1.60	1.60	775	1.43	89			
	20:1	1.48	898	1.29	1.36	833	1.18	87			
	30:1	0.95	816	0.76	0.88	766	0.71	80			
	40:1	0.76	838	0.59	0.76	838	0.59	77			
	50:1	0.60	773	0.43	0.60	773	0.43	72			
	60:1	0.52	770	0.36	0.52	770	0.36	69			
237	5:1	4.32	751	4.06	3.48	612	3.27	94	900	900	17
	10:1	3.23	1099	2.97	2.61	898	2.40	92			
	15:1	2.36	1152	2.08	1.74	859	1.53	88			
	20:1	2.01	1220	1.75	1.61	987	1.40	87			
	30:1	1.33	1156	1.08	1.10	967	0.89	81			
	40:1	1.07	1179	0.82	0.91	1012	0.70	77			
	50:1	0.87	1136	0.64	0.77	1022	0.56	73			
	60:1	0.71	1098	0.51	0.71	1098	0.51	72			
262	5:1	5.24	911	4.93	4.51	794	4.24	94	1000	1000	17
	10:1	3.96	1347	3.64	3.39	1166	3.11	92			
	15:1	2.96	1414	2.63	2.46	1191	2.19	89			
	20:1	2.36	1449	2.08	2.26	1403	1.99	88			
	30:1	1.68	1461	1.36	1.43	1255	1.15	81			
	40:1	1.33	1504	1.05	1.29	1477	1.02	79			
	50:1	1.08	1449	0.81	1.08	1449	0.81	75			
	60:1	0.89	1395	0.65	0.89	1395	0.65	73			
325	5:1	9.72	1707	9.23	8.03	1428	7.63	95	1200	1100	15
	10:1	6.60	2245	6.07	5.02	1729	4.62	92			
	15:1	4.94	2466	4.45	4.02	2030	3.61	90			
	20:1	3.93	2441	3.50	3.65	2296	3.25	89			
	30:1	2.84	2530	2.36	2.36	2131	1.96	83			
	40:1	2.22	2542	1.78	2.01	2328	1.61	80			
	50:1	1.80	2415	1.35	1.61	2183	1.20	75			
	60:1	1.49	2303	1.07	1.43	2245	1.03	72			

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STAINLESS STEEL
REDUCERS

Stainless Steel Worm Gear Reducers: Dimensions



All listed dimensions in inches

Box Size	NEMA Frame	A	AB	AC	B	BB	BD	BE	CC	F	HL	LL
175	56C	7.05	4.04	5.06	5.7	2.85	3.57	2.75	1.75	4.19	1.94	2.06
206	56C	7.72	4.37	5.75	6.44	3.22	3.82	2.88	2.06	5	2.03	2.28
237	56C	8.41	4.69	6.38	6.44	3.22	4.06	2.88	2.38	5	2.06	2.5
	145TC	8.41	4.69	6.38	6.44	3.22	4.06	2.88	2.38	5	2.06	2.5
262	56C	9.16	5.06	7.17	6.88	3.44	4.69	3.37	2.62	6.37	2.44	2.94
	145TC	9.16	5.06	7.17	6.88	3.44	4.69	3.37	2.62	6.37	2.44	2.94
325	56C	11.17	6.06	9.02	8.62	4.31	5.75	4	3.25	7.5	2.63	3.5
	145TC	11.17	6.06	9.02	8.62	4.31	5.75	4	3.25	7.5	2.63	3.5

Box Size	NEMA Frame	Z	INPUT BORE (inches)			OUTPUT BORE (inches)			FLANGE (inches)			
			U	T	V	S	W	Y	LA	LB	LE	LZ
175	56C	2x4-5/16-18UNCx0.5"	0.625	0.19	0.71	1	0.25	1.11	5.875	4.5	0.16	0.41
206	56C	2x4-3/8-16UNCx0.55"	0.625	0.19	0.71	1.438	0.38	1.54	5.875	4.5	0.16	0.41
237	56C	2x4-3/8-16UNCx0.59"	0.625	0.19	0.71	1.438	0.38	1.54	5.875	4.5	0.16	0.41
	145TC	2x4-3/8-16UNCx0.59"	0.875	0.19	0.96	1.438	0.38	1.54	5.875	4.5	0.16	0.41
262	56C	2x4-3/8-16UNCx1"	0.625	0.19	0.71	1.938	0.5	2.03	5.875	4.5	0.16	0.41
	145TC	2x4-3/8-16UNCx1"	0.875	0.19	0.96	1.938	0.5	2.03	5.875	4.5	0.16	0.41
325	56C	2x4-7/16-14UNCx0.86"	0.625	0.19	0.71	2.188	0.5	2.29	5.875	4.5	0.16	0.41
	145TC	2x4-7/16-14UNCx0.86"	0.875	0.19	0.96	2.188	0.5	2.29	5.875	4.5	0.16	0.41

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Stainless Steel Worm Gear Reducers: Accessories and Parts

Stainless Steel Bushing Kits

- » Stainless Steel Bushing Kits include sizing inserts, keys and set screws.
- » Sizes available for 1.75" through 3.25" center distances.



Reducer Size CD (in.)	Output Bore Size	Model Number	Outer Diameter O.D. (in.)	Inner Diameter I.D. (in.)	List Price
1.75	1"	SSB1.58	1"	5/8"	\$103.98
	1"	SSB1.1116	1"	11/16"	\$103.98
	1"	SSB1.34	1"	3/4"	\$103.98
	1"	SSB1.78	1"	7/8"	\$103.98
	1"	NOT REQUIRED	1"	1"	---
2.06	1-7/16"	SSB1716.1	1-7/16"	1"	\$131.64
	1-7/16"	SSB1716.1.18	1-7/16"	1-1/8"	\$131.64
	1-7/16"	SSB1716.1.316	1-7/16"	1-3/16"	\$131.64
	1-7/16"	SSB1716.1.14	1-7/16"	1-1/4"	\$131.64
	1-7/16"	NOT REQUIRED	1-7/16"	1-7/16"	---
2.37	1-7/16"	SSB1716.1	1-7/16"	1"	\$131.64
	1-7/16"	SSB1716.1.18	1-7/16"	1-1/8"	\$131.64
	1-7/16"	SSB1716.1.316	1-7/16"	1-3/16"	\$131.64
	1-7/16"	SSB1716.1.14	1-7/16"	1-1/4"	\$131.64
	1-7/16"	NOT REQUIRED	1-7/16"	1-7/16"	---
2.62	1-15/16"	SSB11516.1	1-15/16"	1"	\$164.82
	1-15/16"	SSB11516.1.18	1-15/16"	1-1/8"	\$164.82
	1-15/16"	SSB11516.1.316	1-15/16"	1-3/16"	\$164.82
	1-15/16"	SSB11516.1.14	1-15/16"	1-1/4"	\$164.82
	1-15/16"	SSB11516.1.716	1-15/16"	1-7/16"	\$164.82
	1-15/16"	SSB11516.1.12	1-15/16"	1-1/2"	\$164.82
	1-15/16"	NOT REQUIRED	1-15/16"	1-15/16"	---
3.25	2-3/16"	SSB2316.1.14	2-3/16"	1-1/4"	\$188.05
	2-3/16"	SSB2316.1.716	2-3/16"	1-7/16"	\$188.05
	2-3/16"	SSB2316.1.12	2-3/16"	1-1/2"	\$188.05
	2-3/16"	SSB2316.1.58	2-3/16"	1-5/8"	\$188.05
	2-3/16"	SSB2316.1.1116	2-3/16"	1-11/16"	\$188.05
	2-3/16"	SSB2316.1.34	2-3/16"	1-3/4"	\$188.05
	2-3/16"	SSB2316.1.1516	2-3/16"	1-15/16"	\$188.05
	2-3/16"	SSB2316.2	2-3/16"	2"	\$188.05
	2-3/16"	NOT REQUIRED	2-3/16"	2-3/16"	---

Output Covers

- » Stainless Steel output covers.
- » Sizes available for 1.75" through 3.25" center distances.



Reducer Size CD (in.)	Model Number	Engineering Make-up	List Price
1.75	SSHdR175-H-OPC	Non Toxic -PP	\$8.30
2.06	SSHdR206-H-OPC	Non Toxic -PP	\$8.30
2.37	SSHdR237-H-OPC	Non Toxic -PP	\$8.30
2.62	SSHdR262-H-OPC	Non Toxic -PP	\$8.30
3.25	SSHdR325-H-OPC	Non Toxic -PP	\$8.30

Single Output Shafts

- » Kit includes single output shaft, keys, endplate and bolt.



Box Size	Shaft Diameter (in.)	Shaft Length (in.)	Model Number	List Price
175	0.875	7.6	SSHdR175-OPS-S	\$105.09
206	1	8.645	SSHdR206-OPS-S	\$111.73
237	1.125	8.925	SSHdR237-OPS-S	\$142.70
262	1.125	9.626	SSHdR262-OPS-S-1.125	\$159.29
262	1.25	9.626	SSHdR262-OPS-S	\$159.29
325	1.375	11.986	SSHdR325-OPS-S-1.375	\$226.77
325	1.5	11.986	SSHdR325-OPS-S	\$226.77

Double Output Shafts

- » Kit includes double output shaft, keys, retaining rings and C-clips.



Box Size	Shaft Diameter (in.)	Shaft Length (in.)	Model Number	List Price
175	0.875	9.657	SSHdR175-OPS-DS	\$147.12
206	1	11.169	SSHdR206-OPS-DS	\$158.19
237	1.125	11.728	SSHdR237-OPS-DS	\$198.01
262	1.125	12.764	SSHdR262-OPS-DS-1.125	\$217.92
262	1.25	12.764	SSHdR262-OPS-DS	\$217.92
325	1.375	15.827	SSHdR325-OPS-DS-1.375	\$310.84
325	1.5	15.827	SSHdR325-OPS-DS	\$310.84

Hollow Output Shaft Oil Seals

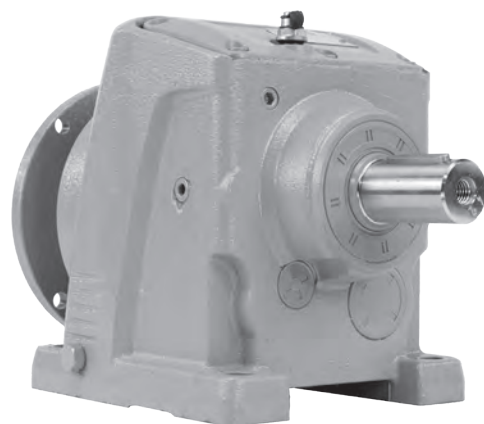
- » Tapered seals sold in quantities of two.

Unit Size	Max. Bore Size	Bearing #	Model Number	List Price
SSHdR175-H	1"	32008	SSHdR-PSS040062083	\$19.20
SSHdR206-H	1-7/16"	32010	SSHdR-PSS050068083	\$22.15
SSHdR237-H	1-7/16"	32010	SSHdR-PSS050072123	\$25.10
SSHdR262-H	1-15/16"	32013	SSHdR-PSS065088123	\$33.00
SSHdR325-H	2-3/16"	32015	SSHdR-PSS075100133	\$41.88

WINL Series - Helical Inline Reducers: Product Overview

Product Specifications

- » 2:1 - 120:1 ratios (other ratios available as custom orders)
- » Box sizes 37 - 147
- » Horsepower range from 1/4 HP to 100 HP
- » Built for high efficiency, high strength and low noise
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » No coupling necessary
- » Drop-in for most major European-produced inline reducer brands
- » Units filled with HD320 mineral oil for an "M1" mounting position
- » Adjust oil level for alternative mounting positions
- » 2 year warranty



Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
37	5:1	4.88	359	5.91	970	305	56C	2	31	WINL37-5/1-56C	\$663.72
	5:1	4.88	359	5.91	970	305	145TC	2	31	WINL37-5/1-145TC	\$663.72
	10:1	10.02	175	4.04	1360	388	56C	2	31	WINL37-10/1-56C	\$663.72
	10:1	10.02	175	4.04	1360	388	145TC	2	31	WINL37-10/1-145TC	\$663.72
	15:1	15.75	111	2.99	1580	451	56C	2	31	WINL37-15/1-56C	\$663.72
	15:1	15.75	111	2.99	1580	451	145TC	3	31	WINL37-15/1-145TC-3S	\$663.72
	20:1	19.95	88	2.49	1670	489	56C	2	31	WINL37-20/1-56C	\$663.72
	20:1	19.95	88	2.49	1670	489	145TC	2	31	WINL37-20/1-145TC	\$663.72
	30:1	31.02	56	1.75	1770	565	56C	3	31	WINL37-30/1-56C	\$663.72
	30:1	31.02	56	1.75	1770	565	145TC	3	31	WINL37-30/1-145TC	\$663.72
	40:1	40.08	44	1.35	1770	615	56C	3	31	WINL37-40/1-56C	\$663.72
	50:1	52.24	33	1.04	1770	670	56C	3	31	WINL37-50/1-56C	\$663.72
47	60:1	60.84	29	0.89	1770	705	56C	3	31	WINL37-60/1-56C	\$663.72
	5:1	4.85	361	9.59	1565	440	145TC	2	50	WINL47-5/1-145TC	\$763.27
	5:1	4.85	361	9.59	1565	440	182/4TC	2	50	WINL47-5/1-182/4TC	\$763.27
	10:1	11.27	155	5.95	2255	590	182TC	2	50	WINL47-10/1-182TC	\$763.27
	15:1	15.18	115	4.87	2490	650	182/4TC	2	50	WINL47-15/1-182/4TC	\$763.27
	20:1	18.37	95	4.29	2650	690	145TC	2	50	WINL47-20/1-145TC	\$763.27
	20:1	18.37	95	4.29	2650	690	182/4TC	2	50	WINL47-20/1-182/4TC	\$763.27
	30:1	31.83	55	2.73	2830	835	145TC	3	50	WINL47-30/1-145TC	\$763.27
	40:1	41.51	42	2.09	2830	910	56C	3	50	WINL47-40/1-56C	\$763.27
	50:1	52.84	33	1.64	2830	985	56C	3	50	WINL47-50/1-56C	\$763.27
RX57	60:1	63.37	28	1.37	2830	1050	56C	3	50	WINL47-60/1-56C	\$763.27
	3:1	3.19	549	4.04	447	133	182TC	1	44	WINL57-3/1-182TC	\$663.72
	2:1	1.86	941	9.43	617	43	182/4TC	1	49	WINL67-2/1-182/4TC	\$719.03
RX67	2.5:1	2.35	745	7.56	616	94	182/4TC	1	49	WINL67-2.5/1-182/4TC	\$719.03
	3.5:1	3.52	497	4.11	502	301	182TC	1	49	WINL67-3.5/1-182TC	\$719.03
67	5:1	5.23	335	15.38	2710	710	145TC	2	73	WINL67-5/1-145TC	\$1,084.07
	5:1	5.23	335	15.38	2710	710	182/4TC	2	73	WINL67-5/1-182/4TC	\$1,084.07
	10:1	9.90	177	12.39	4130	880	182/4TC	2	73	WINL67-10/1-182/4TC	\$1,084.07
	15:1	15.41	114	9.23	4785	1020	145TC	2	73	WINL67-15/1-145TC	\$1,084.07
	15:1	15.41	114	9.23	4785	1020	182TC	2	73	WINL67-15/1-182TC	\$1,084.07
	20:1	22.90	76	6.87	4720	1165	182/4TC	3	73	WINL67-20/1-182/4TC	\$1,084.07
	30:1	32.02	55	4.83	5045	1305	145TC	3	73	WINL67-30/1-145TC	\$1,084.07

Continued On Next Page

WINL Series - Helical Inline Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
67	40:1	41.22	42	3.75	5045	1420	145TC	3	73	WINL67-40/1-145TC	\$1,084.07
	50:1	52.21	34	2.96	5045	1480	145TC	3	73	WINL67-50/1-145TC	\$1,084.07
	60:1	63.07	28	2.45	5045	1480	56C	3	73	WINL67-60/1-56C	\$1,084.07
	80:1	78.59	22	1.97	5045	1480	56C	3	73	WINL67-80/1-56C	\$1,084.07
	100:1	98.69	18	1.57	5045	1480	56C	3	73	WINL67-100/1-56C	\$1,084.07
	120:1	125.28	14	1.23	5045	1480	56C	3	73	WINL67-120/1-56C	\$1,084.07
RX77	2.5:1	2.38	735	13.43	1108	72	182/4TC	1	71	WINL77-2.5/1-182/4TC	\$940.27
	2.5:1	2.38	735	13.43	1108	72	213TC	1	71	WINL77-2.5/1-213TC	\$940.27
	4:1	4.19	418	6.16	895	474	182TC	1	71	WINL77-4/1-182TC	\$940.27
77	5:1	4.78	366	25.13	4040	785	182/4TC	2	83	WINL77-5/1-182/4TC	\$1,272.12
	5:1	4.78	366	25.13	4040	785	213TC	2	83	WINL77-5/1-213TC	\$1,272.12
	10:1	10.91	160	16.89	6205	1035	182/4TC	2	83	WINL77-10/1-182/4TC	\$1,272.12
	10:1	10.91	160	16.89	6205	1035	213TC	2	83	WINL77-10/1-213TC	\$1,272.12
	15:1	14.83	118	12.35	6165	1145	182/4TC	2	83	WINL77-15/1-182/4TC	\$1,272.12
	20:1	23.31	75	7.84	6150	1330	182TC	2	83	WINL77-20/1-182TC	\$1,272.12
	25:1	25.27	69	8.05	6640	1365	182/4TC	3	83	WINL77-25/1-182/4TC	\$1,272.12
	30:1	31.97	55	6.36	6640	1480	182/4TC	3	83	WINL77-30/1-182/4TC	\$1,272.12
	40:1	39.31	45	5.49	6640	1555	182/4TC	3	83	WINL77-40/1-182/4TC	\$1,272.12
	50:1	53.24	33	3.82	6640	1755	145TC	3	83	WINL77-50/1-145TC	\$1,272.12
	60:1	57.73	30	3.52	6640	1800	145TC	3	83	WINL77-60/1-145TC	\$1,272.12
	80:1	84.62	21	2.40	6640	1935	145TC	3	83	WINL77-80/1-145TC	\$1,272.12
	100:1	89.80	19	2.26	6640	1935	145TC	3	83	WINL77-100/1-145TC	\$1,272.12
	120:1	124.34	14	1.64	6640	1935	56C	3	83	WINL77-120/1-56C	\$1,272.12
RX87	2:1	2.04	858	26.27	1859	123	213/5TC	1	124	WINL87-2/1-213/5TC	\$1,548.67
	2:1	2.04	858	26.27	1859	123	254/6TC	1	159	WINL87-2/1-254/6TC	\$1,548.67
	2.5:1	2.52	694	20.25	1770	254	213/5TC	1	124	WINL87-2.5/1-213/5TC	\$1,548.67
	2.5:1	2.52	694	20.25	1770	254	254/6TC	1	159	WINL87-2.5/1-254/6TC	\$1,548.67
	3:1	3.19	549	14.40	1593	497	213/5TC	1	124	WINL87-3/1-213/5TC	\$1,548.67
	3.5:1	3.54	494	12.83	1575	573	213/5TC	1	124	WINL87-3.5/1-213/5TC	\$1,548.67
	4:1	3.77	464	11.51	1505	690	213/5TC	1	124	WINL87-4/1-213/5TC	\$1,548.67
	4.5:1	4.43	395	6.91	1062	942	182/4TC	1	106	WINL87-4.5/1-182/4TC	\$1,548.67
87	5:1	4.73	370	38.49	6120	1800	213/5TC	2	160	WINL87-5/1-213/5TC	\$2,018.81
	5:1	4.73	370	38.49	6120	1800	254TC	2	160	WINL87-5/1-254TC	\$2,018.81
	10:1	10.66	164	27.28	9790	2375	182/4TC	2	160	WINL87-10/1-182/4TC	\$2,018.81
	10:1	10.66	164	27.28	9790	2375	213/5TC	2	160	WINL87-10/1-213/5TC	\$2,018.81
	10:1	10.66	164	27.28	9790	2375	254TC	2	160	WINL87-10/1-254TC	\$2,018.81
	15:1	15.29	114	21.45	11040	2680	182/4TC	2	160	WINL87-15/1-182/4TC	\$2,018.81
	15:1	15.29	114	21.45	11040	2680	213/5TC	2	160	WINL87-15/1-213/5TC	\$2,018.81
	20:1	20.06	87	15.13	9915	2925	182/4TC	3	160	WINL87-20/1-182/4TC	\$2,018.81
	20:1	20.06	87	15.13	9915	2925	213/5TC	3	160	WINL87-20/1-213/5TC	\$2,018.81
	30:1	31.73	55	11.15	11550	3010	182/4TC	3	160	WINL87-30/1-182/4TC	\$2,018.81
	40:1	38.20	46	11.36	14170	3010	182/4TC	3	160	WINL87-40/1-182/4TC	\$2,018.81
	50:1	49.16	36	8.83	14170	3010	145TC	3	160	WINL87-50/1-145TC	\$2,018.81
	50:1	49.16	36	8.83	14170	3010	182/4TC	3	160	WINL87-50/1-182/4TC	\$2,018.81
	60:1	61.54	28	7.05	14170	3010	145TC	3	160	WINL87-60/1-145TC	\$2,018.81
	60:1	61.54	28	7.05	14170	3010	182/4TC	3	160	WINL87-60/1-182/4TC	\$2,018.81
	80:1	87.27	20	4.97	14170	3010	145TC	3	160	WINL87-80/1-145TC	\$2,018.81
	80:1	87.27	20	4.97	14170	3010	182/4TC	3	160	WINL87-80/1-182/4TC	\$2,018.81
	110:1	112.52	16	3.86	14170	3010	145TC	3	160	WINL87-110/1-145TC	\$2,018.81
	120:1	122.17	14	3.55	14170	3010	145TC	3	160	WINL87-120/1-145TC	\$2,018.81
	180:1	179.70	10	2.41	14170	3010	145TC	3	160	WINL87-180/1-145TC	\$2,018.81

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Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
RX97	2:1	2.12	825	51.93	3819	152	284/6TC	1	214	WINL97-2/1-284/6TC	\$2,710.18
	2:1	1.89	926	54.79	3592	146	324TC	1	214	WINL97-2/1-324TC	\$2,710.18
	2.5:1	2.68	653	43.8	4071	288	284/6TC	1	214	WINL97-2.5/1-284/6TC	\$2,710.18
	3:1	3.07	570	38.23	4071	506	254/6TC	1	214	WINL97-3/1-254/6TC	\$2,710.18
	3.5:1	3.48	503	33.72	4070	609	254/6TC	1	214	WINL97-3.5/1-254/6TC	\$2,710.18
	3.5:1	3.48	503	33.72	4070	609	284/6TC	1	214	WINL97-3.5/1-284/6TC	\$2,710.18
	4:1	3.81	459	30.79	4069	946	284/6TC	1	214	WINL97-4/1-284/6TC	\$2,710.18
	4.5:1	4.42	396	18.4	2821	1322	213/5TC	1	214	WINL97-4.5/1-213/5TC	\$2,710.18
97	5:1	5.42	323	68.89	13010	1980	254/6TC	2	244	WINL97-5/1-254/6TC	\$3,346.24
	5:1	5.42	323	68.89	13010	1980	284/6TC	2	244	WINL97-5/1-284/6TC	\$3,346.24
	10:1	10.00	175	55.84	19450	2430	254/6TC	2	244	WINL97-10/1-254/6TC	\$3,346.24
	10:1	10.00	175	55.84	19450	2430	284/6TC	2	244	WINL97-10/1-284/6TC	\$3,346.24
	15:1	16.96	103	39.04	23055	2900	213/5TC	2	244	WINL97-15/1-213/5TC	\$3,346.24
	15:1	16.96	103	39.04	23055	2900	254/6TC	2	244	WINL97-15/1-254/6TC	\$3,346.24
	15:1	16.96	103	39.04	23055	2900	284/6TC	2	244	WINL97-15/1-284/6TC	\$3,346.24
	20:1	21.23	82	31.46	23265	3125	254/6TC	2	244	WINL97-20/1-254/6TC	\$3,346.24
	30:1	28.98	60	23.23	22750	3465	213/5TC	3	244	WINL97-30/1-213/5TC	\$3,346.24
	30:1	28.98	60	23.23	22750	3465	254TC	3	244	WINL97-30/1-254TC	\$3,346.24
	40:1	44.57	39	17.05	25670	4000	213/5TC	3	244	WINL97-40/1-213/5TC	\$3,346.24
	50:1	51.10	34	15.66	27030	4080	213/5TC	3	244	WINL97-50/1-213/5TC	\$3,346.24
	60:1	59.52	34	13.44	27030	4080	213/5TC	3	244	WINL97-60/1-213/5TC	\$3,346.24
	80:1	82.59	21	9.69	27030	4080	182/4TC	3	244	WINL97-80/1-182/4TC	\$3,346.24
	80:1	82.59	21	9.69	27030	4080	213TC	3	244	WINL97-80/1-213TC	\$3,346.24
	100:1	97.76	18	8.18	27030	4080	182/4TC	3	244	WINL97-100/1-182/4TC	\$3,346.24
	120:1	127.61	14	6.27	27030	4080	182/4TC	3	244	WINL97-120/1-182/4TC	\$3,346.24
	180:1	181.06	10	4.42	27030	4080	182/4TC	3	244	WINL97-180/1-182/4TC	\$3,346.24
RX107	2:1	2.30	761	71	5664	217	324/6TC	1	286	WINL107-2/1-324/6TC	\$3,429.20
	3:1	3.12	561	52.34	5664	605	284/6TC	1	286	WINL107-3/1-284/6TC	\$3,429.20
	4:1	4.13	424	32.13	4602	1205	254/6TC	1	286	WINL107-4/1-254/6TC	\$3,429.20
107	5:1	4.50	389	66	9710	2110	213/5TC	2	411	WINL107-5/1-213/5TC	\$5,171.46
	5:1	4.50	389	66	9710	2110	254/6TC	2	411	WINL107-5/1-254/6TC	\$5,171.46
	5:1	4.50	389	66	9710	2110	284/6TC	2	411	WINL107-5/1-284/6TC	\$5,171.46
	5:1	4.50	389	66	9710	2110	324/6TC	2	411	WINL107-5/1-324/6TC	\$5,171.46
	10:1	10.44	168	57	21523	2581	324/6TC	2	411	WINL107-10/1-324/6TC	\$5,171.46
	15:1	14.38	122	34	15991	3076	213/5TC	2	411	WINL107-15/1-213/5TC	\$5,171.46
	15:1	14.38	122	34	15991	3076	254/6TC	2	411	WINL107-15/1-254/6TC	\$5,171.46
	20:1	21.79	86	42	28447	3054	284/6TC	3	411	WINL107-20/1-284/6TC	\$5,171.46
	20:1	21.79	86	42	28447	3054	324TC	3	411	WINL107-20/1-324TC	\$5,171.46
	30:1	29.23	60	31	29000	3502	284/6TC	3	411	WINL107-30/1-284/6TC	\$5,171.46
	40:1	39.52	44	25.5	32667	3951	254/6TC	3	411	WINL107-40/1-254/6TC	\$5,171.46
	50:1	53.00	33	20	35053	4422	213/5TC	3	411	WINL107-50/1-213/5TC	\$5,171.46
	50:1	53.00	33	20	35053	4422	254/6TC	3	411	WINL107-50/1-254/6TC	\$5,171.46
	60:1	62.90	28	16	31277	4794	213/5TC	3	411	WINL107-60/1-213/5TC	\$5,171.46
	60:1	62.90	28	16	31277	4794	254TC	3	411	WINL107-60/1-254TC	\$5,171.46
	80:1	79.95	22	12.5	31059	5309	213/5TC	3	411	WINL107-80/1-213/5TC	\$5,171.46
	120:1	115.50	15	10.5	40102	5938	213/5TC	3	411	WINL107-120/1-213/5TC	\$5,171.46

* WINL107 are Non-Stock Items available by special order only.

Continued On Next Page

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1800 RPM Input	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	Model Number	List Price
137 Non-Stock Items *	5:1	4.87	360	98	16262	2716	254/6TC	2	619	WINL137-5/1-254/6TC	\$8,650.44
	5:1	4.87	360	98	16262	2716	284/6TC	2	619	WINL137-5/1-284/6TC	\$8,650.44
	5:1	4.87	360	98	16262	2716	324/6TC	2	619	WINL137-5/1-324/6TC	\$8,650.44
	5:1	4.87	360	98	16262	2716	364/5TC	2	619	WINL137-5/1-364/5TC	\$8,650.44
	10:1	10.12	173	93	32100	3266	364/5TC	2	619	WINL137-10/1-364/5TC	\$8,650.44
	15:1	14.60	120	91	43944	3210	284/6TC	3	619	WINL137-15/1-284/6TC	\$8,650.44
	15:1	14.60	120	91	43944	3210	324/6TC	3	619	WINL137-15/1-324/6TC	\$8,650.44
	15:1	14.60	120	91	43944	3210	364/5TC	3	619	WINL137-15/1-364/5TC	\$8,650.44
	20:1	20.68	85	77	52676	3491	364/5TC	3	619	WINL137-20/1-364/5TC	\$8,650.44
	30:1	32.81	53	52.5	56992	4467	324/6TC	3	619	WINL137-30/1-324/6TC	\$8,650.44
	40:1	43.25	40	41	58670	5017	284/6TC	3	619	WINL137-40/1-284/6TC	\$8,650.44
	40:1	43.25	40	41	58670	5017	324TC	3	619	WINL137-40/1-324TC	\$8,650.44
	50:1	50.13	35	32	53076	5545	254/6TC	3	619	WINL137-50/1-254/6TC	\$8,650.44
	50:1	50.13	35	32	53076	5545	284/6TC	3	619	WINL137-50/1-284/6TC	\$8,650.44
	60:1	59.14	30	25	48891	6331	254/6TC	3	619	WINL137-60/1-254/6TC	\$8,650.44
	80:1	79.05	22	20	52281	6802	254/6TC	3	619	WINL137-80/1-254/6TC	\$8,650.44
	120:1	117.25	15	15	57847	7835	254TC	3	619	WINL137-120/1-254TC	\$8,650.44
147 Non-Stock Items *	4:1	4.16	421	396	54680	5280	405TC	2	915	WINL147-4/1-405TC	\$15,431.42
	5:1	5.00	350	342	57285	5700	284/6TC	2	915	WINL147-5/1-284/6TC	\$15,210.18
	5:1	5.00	350	342	57285	5700	324/6TC	2	915	WINL147-5/1-324/6TC	\$15,210.18
	5:1	5.00	350	342	57285	5700	364/5TC	2	915	WINL147-5/1-364/5TC	\$15,210.18
	5:1	5.00	350	342	57285	5700	405TC	2	915	WINL147-5/1-405TC	\$15,210.18
	10:1	10.24	171	200	68570	7200	405TC	2	915	WINL147-10/1-405TC	\$15,210.18
	15:1	15.62	112	150	73700	8300	324/6TC	2	915	WINL147-15/1-324/6TC	\$15,210.18
	15:1	15.62	112	150	73700	8300	364/5TC	2	915	WINL147-15/1-364/5TC	\$15,210.18
	15:1	15.62	112	150	73700	8300	405TC	2	915	WINL147-15/1-405TC	\$15,210.18
	20:1	19.99	88	117.9	76380	9020	364/5TC	3	915	WINL147-20/1-364/5TC	\$15,210.18
	30:1	30.23	58	84.5	83311	10340	324/6TC	3	915	WINL147-30/1-324/6TC	\$15,210.18
	30:1	30.23	58	84.5	83311	10340	364/5TC	3	915	WINL147-30/1-364/5TC	\$15,210.18
	40:1	41.70	42	61.3	83309	11550	284/6TC	3	915	WINL147-40/1-284/6TC	\$15,210.18
	40:1	41.70	42	61.3	83309	11550	324/6TC	3	915	WINL147-40/1-324/6TC	\$15,210.18
	50:1	50.49	35	50.6	83307	12320	254/6TC	3	915	WINL147-50/1-254/6TC	\$15,210.18
	50:1	50.49	35	50.6	83307	12320	284/6TC	3	915	WINL147-50/1-284/6TC	\$15,210.18
	60:1	60.38	29	42.3	83306	13090	254/6TC	3	915	WINL147-60/1-254/6TC	\$15,210.18
	60:1	60.38	29	42.3	83306	13090	324TC	3	915	WINL147-60/1-324TC	\$15,210.18
	80:1	83.30	21	30.7	83304	13640	254/6TC	3	915	WINL147-80/1-254/6TC	\$15,210.18
	80:1	83.30	21	30.7	83304	13640	284/6TC	3	915	WINL147-80/1-284/6TC	\$15,210.18
	120:1	117.29	15	21	83300	13640	254/6TC	3	915	WINL147-120/1-254/6TC	\$15,210.18

* WINL137 and WINL147 are Non-Stock Items available by special order only.

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
37	5:1	4.88	359	5.91	970	305	2	1.0	165	2.0	330												
	10:1	10.02	175	4.04	1360	388	2	1.0	340	2.0	680												
	15:1	15.75	111	2.99	1580	451	2	1.0	535	2.0	1070												
	20:1	19.95	88	2.49	1670	489	2	1.0	680	2.0	1355												
	30:1	31.02	56	1.75	1770	565	3	1.0	1025														
	40:1	40.08	44	1.35	1770	615	3	1.0	1325														
	50:1	52.24	33	1.04	1770	670	3	1.0	1725														
47	60:1	60.84	29	0.89	1770	705	3	0.89	1770														
	5:1	4.85	361	9.59	1565	440	2			2.0	330	3.0	495	5.0	825								
	10:1	11.27	155	5.95	2255	590	2					3.0	1150										
	15:1	15.18	115	4.87	2490	650	2					3.0	1555										
	20:1	18.37	95	4.29	2650	690	2			2.0	1250	3.0	1880										
	30:1	31.83	55	2.73	2830	835	3			2.0	2105												
	40:1	41.51	42	2.09	2830	910	3	1.0	1370														
RX57	50:1	52.84	33	1.64	2830	985	3	1.0	1740														
	60:1	63.37	28	1.37	2830	1050	3	1.0	2095														
	3:1	3.19	549	4.04	447	133	1					3.0	336										
	2:1	1.86	941	9.43	617	43	1					3.0	196	5.0	327								
RX67	2.5:1	2.35	745	7.56	616	94	1					3.0	248	5.0	413								
	3.5:1	3.52	497	4.11	502	301	1					3.0	371										
67	5:1	5.23	335	15.38	2710	710	2			2.0	355	3.0	535	5.0	890								
	10:1	9.90	177	12.39	4130	880	2					3.0	1010	5.0	1685								
	15:1	15.41	114	9.23	4785	1020	2			2.0	1050	3.0	1575										
	20:1	22.90	76	6.87	4720	1165	3					3.0	2270	5.0	3785								
	30:1	32.02	55	4.83	5045	1305	3			2.0	2115												
	40:1	41.22	42	3.75	5045	1420	3			2.0	2725												
	50:1	52.21	34	2.96	5045	1480	3			2.0	3400												
	60:1	63.07	28	2.45	5045	1480	3	1.0	2085														
	80:1	78.59	22	1.97	5045	1480	3	1.0	2590														
	100:1	98.69	18	1.57	5045	1480	3	1.0	3260														
	120:1	125.28	14	1.23	5045	1480	3	1.0	4140														
RX77	2.5:1	2.38	735	13.43	1108	72	1					3.0	251	5.0	418								
	2.5:1	2.38	735	13.43	1108	72	1									7.5	627						
	4:1	4.19	418	6.16	895	474	1					3.0	442										
77	5:1	4.78	366	25.13	4040	785	2					3.0	485	5.0	815	7.5	1220						
	10:1	10.91	160	16.89	6205	1035	2							5.0	1860	7.5	2795						
	15:1	14.83	118	12.35	6165	1145	2					3.0	1515										
	20:1	23.31	75	7.84	6150	1330	2					3.0	2385										
	25:1	25.27	69	8.04	6640	1365	3					3.0	2515	5.0	4190								
	30:1	31.97	55	6.36	6640	1480	3					3.0	3155										
	40:1	39.31	45	5.49	6640	1555	3					3.0	3855										
	50:1	53.24	33	3.82	6640	1755	3			2.0	3505												
	60:1	57.73	30	3.52	6640	1800	3			2.0	3855												
	80:1	84.62	21	2.40	6640	1935	3			2.0	5510												
	100:1	89.80	19	2.26	6640	1935	3			2.0	6090												
	120:1	124.34	14	1.64	6640	1935	3	1.0	4130														
RX87	2:1	2.04	858	26.27	1859	123	1									7.5	538	10	717	15	1075	20	1434
	2.5:1	2.52	694	20.25	1770	254	1									7.5	664	10	886	15	1328	20	1771
	3:1	3.19	549	14.4	1593	497	1									7.5	841	10	1121				
	3.5:1	3.54	494	12.83	1575	573	1									7.5	993	10	1244				
	4:1	3.77	464	11.51	1505	690	1									7.5	994	10	1325				
	4.5:1	4.43	395	6.91	1062	942	1			3.0	467	5.0	778										
87	5:1	4.73	370	38.49	6120	1800	2							5.0	1815	7.5	1205	10	1610	15	2415		
	10:1	10.66	164	27.28	9790	2375	2							5.0	2615	7.5	2725	10	3635	15	3455		
	15:1	15.29	114	21.45	11040	2680	2							5.0	3925	7.5	3925	10	5230				
	20:1	20.06	87	15.13	9915	2925	3			3.0	1995	5.0	3325	7.5	4985	10	6650						
	30:1	31.73	55	11.15	11550	3010	3			3.0	3155	5.0	5260										
	40:1	38.20	46	11.36	14170	3010	3			3.0	3770	5.0	6290										
	50:1	49.16	36	8.83	14170	3010	3			2.0	3215	3.0	4820	5.0	8035								
	60:1	61.54	28	7.05	14170	3010	3			2.0	4130	3.0	6200	5.0	10330								
	80:1	87.27	20	4.97	14170	3010	3			2.0	5785	3.0	8680										
	100:1	112.52	16	3.86	14170	3010	3			2.0	7230												
	120:1	122.17	14	3.55	14170	3010	3			2.0	8265												
	180:1	179.70	10	2.41	14170	3010	3			2.0	11574												

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	56C		143/145TC		182TC		184TC		213TC		215TC		254TC		256TC	
								HP	T	HP	+T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	2.12	825	51.93	3819	152	1																
	2.5:1	2.68	653	43.80	4071	288	1																
	3:1	3.07	570	38.23	4071	506	1												15	1618	20	2158	
	3.5:1	3.48	503	33.72	4070	609	1												15	1835	20	2446	
	4:1	3.81	459	30.79	4069	946	1																
	4.5:1	4.42	396	18.4	2821	1322	1								7.5	1165	10	1553					
97	5:1	5.42	323	68.89	13010	1980	2												15	2770	20	3690	
	10:1	10.00	175	55.84	19450	2430	2												15	5110	20	6818	
	15:1	16.96	103	39.04	23055	2900	2								7.5	4340	10	5790	15	8685	20	11580	
	20:1	21.23	82	31.46	23265	3125	2												15	10910	20	14450	
	30:1	28.98	60	23.23	22750	3465	3								7.5	7230	10	9645	15	14465			
	40:1	44.57	39	17.05	25670	4000	3								7.5	11125	10	14835					
	50:1	51.10	34	15.66	27030	4080	3								7.5	12765	10	17020					
	60:1	59.52	34	13.44	27030	4080	3								7.5	14965	10	19950					
	80:1	82.59	21	9.69	27030	4080	3					3.0	8265	5.0	13775	7.5	20665						
	100:1	97.76	18	8.18	27030	4080	3					3.0	9645	5.0	16070								
	120:1	127.61	14	6.27	27030	4080	3					3.0	12400	5.0	20665								
	180:1	181.06	10	4.42	27030	4080	3					3.0	17360										
RX107	2:1	2.30	761	71	5664	217	1																
	3:1	3.12	561	52.34	5664	605	1																
	4:1	4.13	424	32.13	4602	1205	1												15	2177	20	2903	
107	5:1	4.50	389	66	9710	2110	2									7.5	1150	10	1533	15	2300	20	3066
	10:1	10.44	168	57	21523	2581	2																
	15:1	14.38	122	34	15991	3076	2								7.5	3676	10	4901	15	7352	20	9802	
	20:1	21.79	86	42	28447	3054	3																
	30:1	29.23	60	31	29000	3502	3																
	40:1	39.52	44	25.5	32667	3951	3												15	19600	20	26134	
	50:1	53.00	33	20	35053	4422	3								7.5	13145	10	17526	15	26289	20	35053	
	60:1	62.90	28	16	31277	4794	3								7.5	15599	10	20799	15	31198			
	80:1	79.95	22	12.5	31059	5309	3								7.5	19827	10	26436					
	120:1	115.50	15	10.5	40102	5938	3								7.5	26909	10	38192					
Non-Stock Items 137	5:1	4.87	360	98	16262	2716	2												15	2488	20	3317	
	10:1	10.12	173	93	32100	3266	2																
	15:1	14.60	120	91	43944	3210	3																
	20:1	20.68	85	77	52676	3491	3																
	30:1	32.81	53	52.5	56992	4467	3																
	40:1	43.25	40	41	58670	5017	3																
	50:1	50.13	35	32	53076	5545	3												15	24734	20	33156	
	60:1	59.14	30	25	48891	6331	3												15	29178	20	39113	
	80:1	79.05	22	20	52281	6802	3												15	39002	20	52281	
120:1	117.25	15	15	57847	7835	3												15	57847				
Non-Stock Items 147	4:1	4.16	421	396	54680	5280	2																
	5:1	5.00	350	342	57285	5700	2																
	10:1	10.24	171	200	68570	7200	2																
	15:1	15.62	112	150	73700	8300	2																
	20:1	19.99	88	117.9	76380	9020	3																
	30:1	30.23	58	84.5	83311	10340	3																
	40:1	41.70	42	61.3	83309	11550	3																
	50:1	50.49	35	50.6	83307	12320	3														20	33392	
	60:1	60.38	29	42.3	83306	13090	3														20	39935	
	80:1	83.30	21	30.7	83304	13640	3														20	55087	
120:1	117.29	15	21	83300	13640	3														20	77567		

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WINL SERIES - HELICAL
INLINE GEAR REDUCERS

Section 3: Helical Gear Reducers

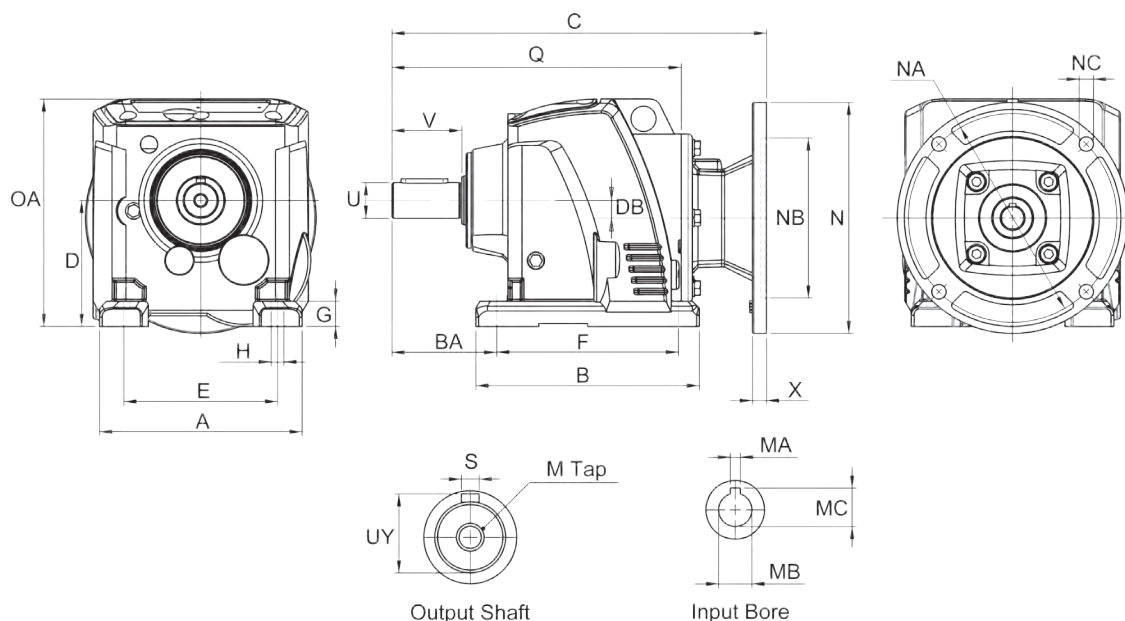
WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	O.H.L. (lbs.)	Stages	284TC		286TC		324TC		326TC		364TC		365TC		405TC	
								HP	T	HP	T	HP	T	HP	T	HP	T	HP	T	HP	T
RX97	2:1	2.12	825	51.93	3819	152	1	25	1863	30	2235										
	2:1	1.89	926	54.79	3592	146	1	25	1661	30	1993	40	2657								
	2.5:1	2.68	653	43.8	4071	288	1	25	2355	30	2826										
	3:1	3.07	570	38.23	4071	506	1														
	3.5:1	3.48	503	33.72	4070	609	1	25	3058	30	3669										
	4:1	3.81	459	30.79	4069	946	1	25	3347	30	4017										
97	4.5:1	4.42	396	18.4	2821	1322	1														
	5:1	5.42	323	68.89	13010	1980	2	25	4615	30	5540										
	10:1	10.00	175	55.84	19450	2430	2	25	8520	30	10225										
	15:1	16.96	103	39.04	23055	2900	2	25	14480	30	17375										
	20:1	21.23	82	31.46	23265	3125	2														
	30:1	28.98	60	23.23	22750	3465	3														
	40:1	44.57	39	17.05	25670	4000	3														
	50:1	51.10	34	15.66	27030	4080	3														
	60:1	59.52	34	13.44	27030	4080	3														
	80:1	82.59	21	9.69	27030	4080	3														
	100:1	97.76	18	8.18	27030	4080	3														
	120:1	127.61	14	6.27	27030	4080	3														
RX107	180:1	181.06	10	4.42	27030	4080	3														
	2:1	2.30	761	71	5664	217	1							50	4042						
	3:1	3.12	561	52.34	5664	605	1	25	2741	30	3289										
107	4:1	4.13	424	32.13	4602	1205	1														
	5:1	4.50	389	66	9710	2110	2	25	3833	30	4599	40	6132	50	7665						
	10:1	10.44	168	57	21523	2581	2					40	14240	50	17800						
	15:1	14.38	122	34	15991	3076	2														
	20:1	21.79	86	42	28447	3054	3	25	16726	30	20072	40	26762								
	30:1	29.23	60	31	29000	3502	3	25	24164	30	28997										
	40:1	39.52	44	25.5	32667	3951	3														
	50:1	53.00	33	20	35053	4422	3														
	60:1	62.90	28	16	31277	4794	3														
	80:1	79.95	22	12.5	31059	5309	3														
	120:1	115.50	15	10.5	40102	5938	3														
137 Non-Stock Items	5:1	4.87	360	98	16262	2716	2	25	4147	30	4976	40	6634	50	8293	60	9952	75	12440		
	10:1	10.12	173	93	32100	3266	2									60	20699	75	25874		
	15:1	14.60	120	91	43944	3210	3	25	12066	30	14480	40	19306	50	24133	60	28959	75	36199		
	20:1	20.68	85	77	52676	3491	3									60	41026	75	51282		
	30:1	32.81	53	52.5	56992	4467	3					40	43401	50	54251						
	40:1	43.25	40	41	58670	5017	3	25	35756	30	42908	40	57210								
	50:1	50.13	35	32	53076	5545	3	25	41445	30	49734										
	60:1	59.14	30	25	48891	6331	3														
	80:1	79.05	22	20	52281	6802	3														
	120:1	117.25	15	15	57847	7835	3														
147 Non-Stock Items	4:1	4.16	421	396	54680	5280	2													100	14171
	5:1	5.00	350	342	57285	5700	2	25	4621	30	5113	40	6818	50	8522	60	10227	75	12784	100	17045
	10:1	10.24	171	200	68570	7200	2													100	34900
	15:1	15.62	112	150	73700	8300	2					40	21295	50	26619	60	31943	75	39928	100	53238
	20:1	19.99	88	117.9	76380	9020	3									60	39662	75	49578		
	30:1	30.23	58	84.5	83311	10340	3					40	39980	50	49975	60	59970	75	74962		
	40:1	41.70	42	61.3	83309	11550	3	25	34469	30	41362	40	55150	50	68937						
	50:1	50.49	35	50.6	83307	12320	3	25	41740	30	50088										
	60:1	60.38	29	42.3	83306	13090	3														
	80:1	83.30	21	30.7	83304	13640	3	25	68859	30	82631										
	120:1	117.29	15	21	83300	13640	3														

WINL Series - Helical Inline Reducers: Dimensions



All listed dimensions in inches																										
Box Size	NEMA Frame	A	B	BA	C	D	DB	E	F	G	H	M (UNC)	MA	MB	MC	N	NA	NB	NC	OA	Q	S	U	UY	V	X
37	56C	5.71	6.3	2.95	10.55	3.54	0.49	4.33	5.12	0.71	0.35	3/8 -16	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	6.4	8.15	0.25	1.0	1.11	1.97	0.39
	145TC	5.71	6.3	2.95	10.94	3.54	0.49	4.33	5.12	0.71	0.35	3/8 -16	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	6.4	8.15	0.25	1.0	1.11	1.97	0.47
47	56C	6.69	7.68	3.54	11.63	4.53	0.55	5.31	6.5	0.94	0.55	1/2 -13	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	8.25	9.41	0.25	1.25	1.36	2.36	0.39
	145TC	6.69	7.68	3.54	12.03	4.53	0.55	5.31	6.5	0.94	0.55	1/2 -13	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	8.25	9.41	0.25	1.25	1.36	2.36	0.47
	182/4TC	6.69	7.68	3.54	12.76	4.53	0.55	5.31	6.5	0.94	0.55	1/2 -13	0.25	1.13	1.25	9	7.25	8.5	4 x 0.55	8.25	9.41	0.25	1.25	1.36	2.36	0.67
67	56C	8.27	9.25	3.94	13.13	5.12	0.67	5.91	7.68	1.26	0.55	1/2 -13	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	8.89	10.98	0.31	1.38	1.51	2.76	0.39
	145TC	8.27	9.25	3.94	13.52	5.12	0.67	5.91	7.68	1.26	0.55	1/2 -13	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	8.89	10.98	0.31	1.38	1.51	2.76	0.47
	182/4TC	8.27	9.25	3.94	14.25	5.12	0.67	5.91	7.68	1.26	0.55	1/2 -13	0.25	1.13	1.25	9	7.25	8.5	4 x 0.55	8.89	10.98	0.31	1.38	1.51	2.76	0.67
77	56C	9.06	9.65	4.53	14.23	5.51	0.61	6.69	8.07	1.18	0.71	5/8 -11	0.19	0.63	0.72	6.5	5.88	4.5	4 x 0.41	10.04	11.91	0.38	1.63	1.79	3.15	0.39
	145TC	9.06	9.65	4.53	14.23	5.51	0.61	6.69	8.07	1.18	0.71	5/8 -11	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	10.04	11.91	0.38	1.63	1.79	3.15	0.47
	182/4TC	9.06	9.65	4.53	14.96	5.51	0.61	6.69	8.07	1.18	0.71	5/8 -11	0.25	1.13	1.25	9	7.25	8.5	4 x 0.55	10.04	11.91	0.38	1.63	1.79	3.15	0.67
	213/5TC	9.06	9.65	4.53	17.22	5.51	0.61	6.69	8.07	1.18	0.71	5/8 -11	0.31	1.38	1.53	9	7.25	8.5	4 x 0.55	10.04	11.91	0.38	1.63	1.79	3.15	0.67
87	145TC	11.42	12.2	5.51	17.2	7.09	0.71	8.46	10.24	1.77	0.71	3/4 -10	0.19	0.88	0.97	6.5	5.88	4.5	4 x 0.41	12.99	14.65	0.5	2.13	2.34	3.94	0.47
	182/4TC	11.42	12.2	5.51	17.33	7.09	0.71	8.46	10.24	1.77	0.71	3/4 -10	0.25	1.13	0.68	9	7.25	8.5	4 x 0.55	12.99	14.65	0.5	2.13	2.34	3.94	0.67
	213/5TC	11.42	12.2	5.51	19.59	7.09	0.71	8.46	10.24	1.77	0.71	3/4 -10	0.31	1.38	0.88	9	7.25	8.5	4 x 0.55	12.99	14.65	0.5	2.13	2.34	3.94	0.67
	254/6TC	11.42	12.2	5.51	20.57	7.09	0.71	8.46	10.24	1.77	0.71	3/4 -10	0.31	1.38	1.53	10	7.25	8.5	4 x 0.55	12.99	14.65	0.5	2.13	2.34	3.94	0.79
97	182/4TC	13.39	14.37	6.3	19.84	8.86	0.81	9.84	12.2	2.17	0.87	3/4 -11	0.25	1.13	0.68	9	7.25	8.5	4 x 0.55	15.16	17.32	0.63	2.38	2.65	4.72	0.67
	213/5TC	13.39	14.37	6.3	21.95	8.86	0.81	9.84	12.2	2.17	0.87	3/4 -11	0.31	1.38	0.88	9	7.25	8.5	4 x 0.55	15.16	17.32	0.63	2.38	2.65	4.72	0.67
	254/6TC	13.39	14.37	6.3	22.93	8.86	0.81	9.84	12.2	2.17	0.87	3/4 -11	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	15.16	17.32	0.63	2.38	2.65	4.72	0.79
	284/6TC	13.39	14.37	6.3	23.29	8.86	0.81	9.84	12.2	2.17	0.87	3/4 -11	0.5	1.88	1.10	11.26	9	10.5	4 x 0.59	15.16	17.32	0.63	2.38	2.65	4.72	0.79
107	213/5TC	15.75	17.32	7.28	23.74	9.84	0.91	11.42	14.57	2.56	1.02	3/4 -10	0.31	1.38	1.52	9	7.25	8.5	4 x 0.55	15.92	19.49	0.75	2.88	3.2	5.51	0.67
	254/6TC	15.75	17.32	7.28	24.72	9.84	0.91	11.42	14.57	2.56	1.02	3/4 -10	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	15.92	19.49	0.75	2.88	3.2	5.51	0.79
	284/6TC	15.75	17.32	7.28	25.08	9.84	0.91	11.42	14.57	2.56	1.02	3/4 -10	0.5	1.88	2.13	11.26	9	10.5	4 x 0.59	15.92	19.49	0.75	2.88	3.2	5.51	0.79
	324/6TC	15.75	17.32	7.28	26.3	9.84	0.91	11.42	14.57	2.56	1.02	3/4 -10	0.5	2.13	2.38	14.02	11	12.5	4 x 0.65	15.92	19.49	0.75	2.88	3.2	5.51	0.79
Non-Stock Items	254/6TC	17.72	19.29	8.66	28.07	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	19.29	23.23	0.88	3.63	4.01	6.69	0.79
	284/6TC	17.72	19.29	8.66	28.39	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.5	1.88	2.13	11.26	9	10.5	4 x 0.59	19.29	23.23	0.88	3.63	4.01	6.69	0.79
	324/6TC	17.72	19.29	8.66	29.61	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.5	2.13	2.38	14.02	11	12.5	4 x 0.65	19.29	23.23	0.88	3.63	4.01	6.69	0.79
	364/5TC	17.72	19.29	8.66	30.67	12.4	1.38	13.39	16.14	2.76	1.3	1 - 8	0.63	2.38	2.65	14.02	11	12.5	4 x 0.65	19.29	23.23	0.88	3.63	4.01	6.69	0.87
Non-Stock Items	254/6TC	20.87	23.23	10.24	31.89	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.38	1.63	1.81	10	7.25	8.5	4 x 0.55	24.96	27.36	1	4.38	4.82	8.27	0.79
	284/6TC	20.87	23.23	10.24	32.2	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.5	1.88	2.13	11.26	9	10.5	4 x 0.59	24.96	27.36	1	4.38	4.82	8.27	0.79
	324/6TC	20.87	23.23	10.24	33.58	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.5	2.13	2.38	14.02	11	12.5	4 x 0.65	24.96	27.36	1	4.38	4.82	8.27	0.79
	365/5TC	20.87	23.23	10.24	34.65	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.63	2.38	2.65	14.02	11	12.5	4 x 0.65	24.96	27.36	1	4.38	4.82	8.27	0.87
	405TC	20.87	23.23	10.24	36.61	13.98	2.05	14.96	19.69	3.15	1.54	1 - 8	0.75	2.88	3.21	13.88	11	12.5	4 x 0.73	24.96	27.36	1	4.38	4.82	8.27	0.75

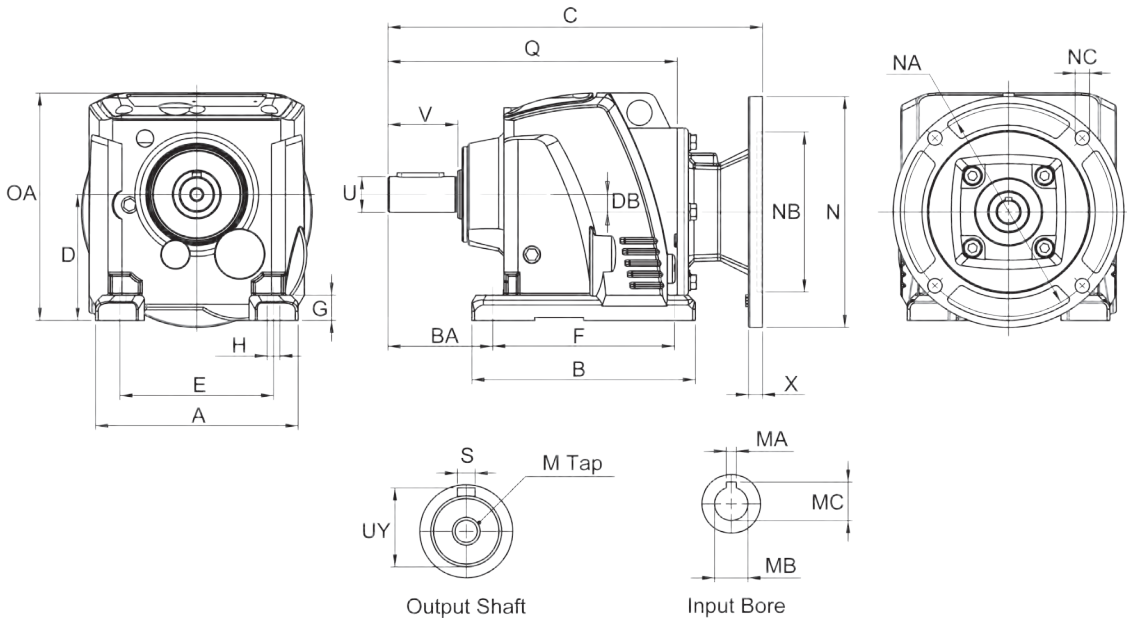
Dimensions shown in this catalog are for general use only.
RX model dimensions are not shown.
For an exact drawing on a specific rating, please contact our sales office.

Section 3: Helical Gear Reducers

WINL Series - Helical Inline Gear Reducers



WINL Series - Helical Inline Reducers: Competitor Dimensional Comparison - SEW Eurodrive



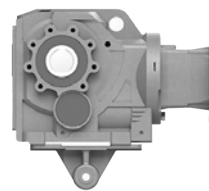
All listed dimensions in inches																											
Box Size	NEMA Frame	SEW Model	A	B	BA	C	D	DB	E	F	G	H	M (UNC)	MA	MB	MC	N	NA	NB	NC	OA	Q	S	U	UY	V	X
37	56C	R37	5.71	6.30	2.95	11.77	3.54	0.40	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	5.94	7.91	0.25	1	1.11	1.97	0.61
	145TC		5.71	6.30	2.95	12.70	3.54	0.40	4.33	5.12	0.71	0.35	3/8 - 16	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	5.94	7.91	0.25	1	1.11	1.97	0.65
47	56C	R47	6.69	7.68	3.54	12.86	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	7.36	9.25	0.25	1.25	1.36	2.36	0.61
	145TC		6.69	7.68	3.54	13.78	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	7.36	9.25	0.25	1.25	1.36	2.36	0.65
	182/4TC		6.69	7.68	3.54	15.26	4.53	0.55	5.31	6.50	0.94	0.53	1/2 - 13	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	7.36	9.25	0.25	1.25	1.36	2.36	0.59
	56C		8.27	9.25	3.94	14.63	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	8.35	11.02	0.31	1.38	1.51	2.76	0.61
67	145TC	R67	8.27	9.25	3.94	15.55	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	8.35	11.02	0.31	1.38	1.51	2.76	0.65
	182/4TC		8.27	9.25	3.94	17.03	5.12	0.81	5.91	7.68	1.18	0.55	1/2 - 13	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	8.35	11.02	0.31	1.38	1.51	2.76	0.59
77	56C	R77	9.06	9.65	4.53	15.18	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.19	0.63	0.71	6.69	5.87	4.5	4 x 0.41	8.98	11.81	0.38	1.63	1.79	3.15	0.61
	145TC		9.06	9.65	4.53	16.06	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	8.98	11.81	0.38	1.63	1.79	3.15	0.65
	182/4TC		9.06	9.65	4.53	17.50	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	8.98	11.81	0.38	1.63	1.79	3.15	0.59
	213/5TC		9.06	9.65	4.53	19.43	5.51	0.63	6.69	8.07	1.18	0.69	5/8 - 11	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	8.98	11.81	0.38	1.63	1.79	3.15	0.63
87	145TC	R87	11.42	12.20	5.51	18.71	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.19	0.88	0.97	6.69	5.87	4.5	4 x 0.41	11.61	14.65	0.5	2.13	2.35	3.94	0.65
	182/4TC		11.42	12.20	5.51	20.15	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	11.61	14.65	0.5	2.13	2.35	3.94	0.59
	213/5TC		11.42	12.20	5.51	22.07	7.09	0.50	8.46	10.24	1.77	0.69	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	11.61	14.65	0.5	2.13	2.35	3.94	0.63
	182/4TC		13.39	14.37	6.30	22.62	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.25	1.13	1.25	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.59
97	213/5TC	R97	13.39	14.37	6.30	24.55	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.63
	254/6TC		13.39	14.37	6.30	26.54	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.67
	284/6TC		13.39	14.37	6.30	26.81	8.86	0.40	9.84	12.20	2.17	0.87	3/4 - 10	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	14.49	17.32	0.63	2.38	2.65	4.72	0.99
	213/5TC		15.75	17.32	7.28	26.48	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.31	1.38	1.52	8.98	7.24	8.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.63
107	254/6TC	R107	15.75	17.32	7.28	28.47	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.67
	284/6TC		15.75	17.32	7.28	28.75	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	16.06	19.49	0.75	2.88	3.2	5.51	0.79
	324/6TC		15.75	17.32	7.28	31.11	9.84	0.80	11.42	14.57	2.56	1.02	3/4 - 10	0.50	2.13	2.36	14.02	11	12.5	4 x 0.69	16.06	19.49	0.75	2.88	3.2	5.51	0.87
	254/6TC		17.72	19.29	8.66	31.89	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.67
Non-Stock Items	284/6TC	R137	17.72	19.29	8.66	32.17	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	19.49	23.19	0.88	3.63	4.01	6.69	0.79
	324/6TC		17.72	19.29	8.66	34.53	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.50	2.13	2.36	14.02	11	12.5	4 x 0.69	19.49	23.19	0.88	3.63	4.01	6.69	0.87
	365/5TC		17.72	19.29	8.66	34.53	12.40	0.99	13.39	16.14	2.76	1.30	1 - 8	0.63	2.38	2.66	14.02	11	12.5	4 x 0.69	19.49	23.19	0.88	3.63	4.01	6.69	0.87
147	254/6TC	R147	20.87	23.23	10.24	35.75	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.38	1.63	1.8	8.98	7.24	8.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.67
	284/6TC		20.87	23.23	10.24	36.02	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.50	1.88	2.1	11.26	9	10.5	4 x 0.59	22.24	27.36	1	4.38	4.82	8.27	0.79
324/6TC	20.87		23.23	10.24	38.39	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.50	2.13	2.36	14.02	11	12.5	4 x 0.69	22.24	27.36	1	4.38	4.82	8.27	0.87	
365/5TC	20.87		23.23	10.24	38.39	13.98	1.31	14.96	19.69	3.15	1.54	1 - 8	0.63	2.38	2.66	14.02	11	12.5	4 x 0.69	22.24	27.36	1	4.38	4.82	8.27	0.87	

SEW Eurodrive dimensional data was derived from their Catalog - US - GM.
Blue shaded cells indicate a dimensional difference.

KAN & KHN Series - Helical Bevel Reducers: Product Overview

Product Specifications

- » 5:1 - 120:1 ratios
 - » Additional ratios via custom order
- » Box sizes 37 - 97
- » Horsepower range from 3/4 HP to 30 HP
- » **KAN Series:** Torque arm mounted or B5/B14 flange mounted - hollow bore output series. B14 flange is integrated. B5 flange is sold separately.
- » **KHN Series:** Foot mounted - hollow bore output series
- » All cast iron housings for increased strength and reliability
- » Gears are precision machined for better rotation and quieter operation
- » Gearbox flanges are designed to accept NEMA C-face electric motors
- » Drop-in for most major European-produced inline reducer brands
- » 2 year warranty



KAN Series



KHN Series

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	KAN Model Number	KAN List Price	KHN Model Number	KHN List Price
37	5	4.73	370	8.5	1310	400	56C	3	32	KAN37-5/1-H-56C	\$1,735.46	KHN37-5/1-H-56C	\$1,783.19
	5	4.73	370	8.5	1310	395	143/5TC	3	37	KAN37-5/1-H-143/5TC	\$1,735.46	KHN37-5/1-H-143/5TC	\$1,783.19
	7.5	7.96	220	6	1559	465	56C	3	32	KAN37-7.5/1-H-56C	\$1,735.46	KHN37-7.5/1-H-56C	\$1,783.19
	7.5	7.96	220	6	1559	460	143/5TC	3	37	KAN37-7.5/1-H-143/5TC	\$1,735.46	KHN37-7.5/1-H-143/5TC	\$1,783.19
	10	11.09	158	4.33	1565	520	56C	3	32	KAN37-10/1-H-56C	\$1,735.46	KHN37-10/1-H-56C	\$1,783.19
	10	11.09	158	4.33	1565	510	143/5TC	3	37	KAN37-10/1-H-143/5TC	\$1,735.46	KHN37-10/1-H-143/5TC	\$1,783.19
	15	15.32	114	3.14	1568	575	56C	3	32	KAN37-15/1-H-56C	\$1,735.46	KHN37-15/1-H-56C	\$1,783.19
	15	15.32	114	3.14	1568	560	143/5TC	3	37	KAN37-15/1-H-143/5TC	\$1,735.46	KHN37-15/1-H-143/5TC	\$1,783.19
	25	23.1	76	2.2	1659	635	56C	3	32	KAN37-25/1-H-56C	\$1,735.46	KHN37-25/1-H-56C	\$1,783.19
	25	23.1	76	2.2	1659	610	143/5TC	3	37	KAN37-25/1-H-143/5TC	\$1,735.46	KHN37-25/1-H-143/5TC	\$1,783.19
	30	32.19	54	1.66	1747	705	56C	3	32	KAN37-30/1-H-56C	\$1,735.46	KHN37-30/1-H-56C	\$1,783.19
	30	32.19	54	1.66	1747	680	143TC	3	37	KAN37-30/1-H-143TC	\$1,735.46	KHN37-30/1-H-143TC	\$1,783.19
	40	37.97	46	1.43	1770	735	56C	3	32	KAN37-40/1-H-56C	\$1,735.46	KHN37-40/1-H-56C	\$1,783.19
	40	37.97	46	1.43	1770	705	143TC	3	37	KAN37-40/1-H-143TC	\$1,735.46	KHN37-40/1-H-143TC	\$1,783.19
	50	49.51	35	1.1	1770	785	56C	3	32	KAN37-50/1-H-56C	\$1,735.46	KHN37-50/1-H-56C	\$1,783.19
	60	59.67	29	0.91	1770	815	56C	3	32	KAN37-60/1-H-56C	\$1,735.46	KHN37-60/1-H-56C	\$1,783.19
47	5	5.85	299	9.2	1757	505	145TC	3	51	KAN47-5/1-H-145TC	\$1,884.26	KHN47-5/1-H-145TC	\$1,951.33
	5	5.85	299	9.2	1757	485	182/4TC	3	57	KAN47-5/1-H-182/4TC	\$1,884.26	KHN47-5/1-H-182/4TC	\$1,951.33
	7.5	7.11	246	8.08	1875	530	145TC	3	51	KAN47-7.5/1-H-145TC	\$1,884.26	KHN47-7.5/1-H-145TC	\$1,951.33
	7.5	7.11	246	8.08	1875	510	182/4TC	3	57	KAN47-7.5/1-H-182/4TC	\$1,884.26	KHN47-7.5/1-H-182/4TC	\$1,951.33
	10	9.95	176	6.46	2097	620	56C	3	46	KAN47-10/1-H-56C	\$1,884.26	KHN47-10/1-H-56C	\$1,951.33
	10	9.95	176	6.46	2097	615	143/5TC	3	51	KAN47-10/1-H-143/5TC	\$1,884.26	KHN47-10/1-H-143/5TC	\$1,951.33
	10	9.95	176	6.46	2097	550	182/4TC	3	57	KAN47-10/1-H-182/4TC	\$1,884.26	KHN47-10/1-H-182/4TC	\$1,951.33
	15	16.99	103	4.52	2507	660	145TC	3	51	KAN47-15/1-H-145TC	\$1,884.26	KHN47-15/1-H-145TC	\$1,951.33
	15	16.99	103	4.52	2507	600	182TC	3	57	KAN47-15/1-H-182TC	\$1,884.26	KHN47-15/1-H-182TC	\$1,951.33
	20	20.65	85	3.97	2675	690	143/5TC	3	51	KAN47-20/1-H-143/5TC	\$1,884.26	KHN47-20/1-H-143/5TC	\$1,951.33
	20	20.65	85	3.97	2675	610	182TC	3	57	KAN47-20/1-H-182TC	\$1,884.26	KHN47-20/1-H-182TC	\$1,951.33
	30	28.88	61	3.17	2991	855	56C	3	46	KAN47-30/1-H-56C	\$1,884.26	KHN47-30/1-H-56C	\$1,951.33
	30	28.88	61	3.17	2991	830	143/5TC	3	51	KAN47-30/1-H-143/5TC	\$1,884.26	KHN47-30/1-H-143/5TC	\$1,951.33
	40	41.36	42	2.5	3372	945	56C	3	46	KAN47-40/1-H-56C	\$1,884.26	KHN47-40/1-H-56C	\$1,951.33
	40	41.36	42	2.5	3372	905	143/5TC	3	51	KAN47-40/1-H-143/5TC	\$1,884.26	KHN47-40/1-H-143/5TC	\$1,951.33
	50	47.08	37	2.21	3400	975	56C	3	46	KAN47-50/1-H-56C	\$1,884.26	KHN47-50/1-H-56C	\$1,951.33
	50	47.08	37	2.21	3400	935	143TC	3	51	KAN47-50/1-H-143TC	\$1,884.26	KHN47-50/1-H-143TC	\$1,951.33
	60	58.99	30	1.84	3540	1030	56C	3	46	KAN47-60/1-H-56C	\$1,884.26	KHN47-60/1-H-56C	\$1,951.33
67	60	58.99	30	1.84	3540	980	143TC	3	51	KAN47-60/1-H-143TC	\$1,884.26	KHN47-60/1-H-143TC	\$1,951.33
	70	71.78	24	1.51	3540	1070	56C	3	46	KAN47-70/1-H-56C	\$1,884.26	KHN47-70/1-H-56C	\$1,951.33
	70	71.78	24	1.51	3540	1000	143TC	3	51	KAN47-70/1-H-143TC	\$1,884.26	KHN47-70/1-H-143TC	\$1,951.33
	85	86.89	20	1.42	3540	1110	56C	3	46	KAN47-85/1-H-56C	\$1,884.26	KHN47-85/1-H-56C	\$1,951.33
	10	9.66	181	12.06	3800	1500	145TC	3	73	KAN67-10/1-H-145TC	\$2,301.10	KHN67-10/1-H-145TC	\$2,440.27
	10	9.66	181	12.06	3800	1410	182/4TC	3	80	KAN67-10/1-H-182/4TC	\$2,301.10	KHN67-10/1-H-182/4TC	\$2,440.27
	15	14.16	124	9.23	4265	1770	56C	3	69	KAN67-15/1-H-56C	\$2,301.10	KHN67-15/1-H-56C	\$2,440.27
	15	14.16	124	9.23	4265	1740	143/5TC	3	73	KAN67-15/1-H-143/5TC	\$2,301.10	KHN67-15/1-H-143/5TC	\$2,440.27
	15	14.16	124	9.23	4265	1500	182/4TC	3	80	KAN67-15/1-H-182/4TC	\$2,301.10	KHN67-15/1-H-182/4TC	\$2,440.27
	20	22.18	79	6.26	4530	1760	145TC	3	73	KAN67-20/1-H-145TC	\$2,301.10	KHN67-20/1-H-145TC	\$2,440.27
	20	22.18	79	6.26	4530	1570	182/4TC	3	80	KAN67-20/1-H-182/4TC	\$2,301.10	KHN67-20/1-H-182/4TC	\$2,440.27
	30	30.9	57	5.34	5390	1820	145TC	3	73	KAN67-30/1-H-145TC	\$2,301.10	KHN67-30/1-H-145TC	\$2,440.27
	30	30.9	57	5.34	5390	1550	182/4TC	3	80	KAN67-30/1-H-182/4TC	\$2,301.10	KHN67-30/1-H-182/4TC	\$2,440.27
	40	37.98	46	4.62	5730	2140	56C	3	69	KAN67-40/1-H-56C	\$2,301.10	KHN67-40/1-H-56C	\$2,440.27
	40	37.98	46	4.62	5730	1850	143/5TC	3	73	KAN67-40/1-H-143/5TC	\$2,301.10	KHN67-40/1-H-143/5TC	\$2,440.27
	40	37.98	46	4.62	5730	1510	182TC	3	80	KAN67-40/1-H-182TC	\$2,301.10	KHN67-40/1-H-182TC	\$2,440.27
	45	46.33	38	4.02	6080	2140	56C	3	69	KAN67-45/1-H-56C	\$2,301.10	KHN67-45/1-H-56C	\$2,440.27
	45	46.33	38	4.02	6080	2140	143/5TC	3	73	KAN67-45/1-H-143/5TC	\$2,301.10	KHN67-45/1-H-143/5TC	\$2,440.27
	45	46.33	38	4.02	6080	1450	182TC	3	80	KAN67-45/1-H-182TC	\$2,301.10	KHN67-45/1-H-182TC	\$2,440.27
	65	64.97	27	2.95	6260	2140	56C	3	69	KAN67-65/1-H-56C	\$2,301.10	KHN67-65/1-H-56C	\$2,440.27
	65	64.97	27	2.95	6260	2140	143/5TC	3	73	KAN67-65/1-H-143/5TC	\$2,301.10	KHN67-65/1-H-143/5TC	\$2,440.27
	85	84.1	21	2.46	6760	2140	56C	3	69	KAN67-85/1-H-56C	\$2,301.10	KHN67-85/1-H-56C	\$2,440.27
	85	84.1	21	2.46	6760	2140	143/5TC	3	73	KAN67-85/1-H-143/5TC	\$2,301.10	KHN67-85/1-H-143/5TC	\$2,440.27

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KAN & KHN Series - Helical Bevel Reducers: Product Overview

Box Size	Nominal Ratio	Actual Ratio	Output RPM @ 1750 RPM Input	Input HP	Output Torque (lbs. in.)	Max OHL (lbs.)	Motor Frame	Stages	Approx. Weight (lbs.)	KAN Model Number	KAN List Price	KHN Model Number	KHN List Price
67	110	108.03	16	2.06	7260	2140	56C	3	69	KAN67-110/1-H-56C	\$2,301.10	KHN67-110/1-H-56C	\$2,440.27
	110	108.03	16	2.06	7260	2140	143TC	3	73	KAN67-110/1-H-143TC	\$2,301.10	KHN67-110/1-H-143TC	\$2,440.27
	120	118.14	15	1.88	7260	2140	56C	3	69	KAN67-120/1-H-56C	\$2,301.10	KHN67-120/1-H-56C	\$2,440.27
	120	118.14	15	1.88	7260	2140	143TC	3	73	KAN67-120/1-H-143TC	\$2,301.10	KHN67-120/1-H-143TC	\$2,440.27
77	7.5	8.40	208	27.05	7415	1810	184TC	3	132	KAN77-7.5/1-H-184TC	\$3,542.15	KHN77-7.5/1-H-184TC	\$3,709.07
	7.5	8.40	208	27.05	7415	1660	213/5TC	3	148	KAN77-7.5/1-H-213/5TC	\$3,542.15	KHN77-7.5/1-H-213/5TC	\$3,709.07
	10	9.96	176	24.02	7800	1860	184TC	3	132	KAN77-10/1-H-184TC	\$3,542.15	KHN77-10/1-H-184TC	\$3,709.07
	10	9.96	176	24.02	7800	1690	213/5TC	3	148	KAN77-10/1-H-213/5TC	\$3,542.15	KHN77-10/1-H-213/5TC	\$3,709.07
	15	15.73	111	17.64	9050	2030	184TC	3	132	KAN77-15/1-H-184TC	\$3,542.15	KHN77-15/1-H-184TC	\$3,709.07
	15	15.73	111	17.64	9050	1760	213/5TC	3	148	KAN77-15/1-H-213/5TC	\$3,542.15	KHN77-15/1-H-213/5TC	\$3,709.07
	20	20.24	86	14.78	9765	2080	184TC	3	132	KAN77-20/1-H-184TC	\$3,542.15	KHN77-20/1-H-184TC	\$3,709.07
	20	20.24	86	14.78	9765	1740	213/5TC	3	148	KAN77-20/1-H-213/5TC	\$3,542.15	KHN77-20/1-H-213/5TC	\$3,709.07
	30	30.48	57	10.97	10915	2020	184TC	3	132	KAN77-30/1-H-184TC	\$3,542.15	KHN77-30/1-H-184TC	\$3,709.07
	30	30.48	57	10.97	10915	1470	213/5TC	3	148	KAN77-30/1-H-213/5TC	\$3,542.15	KHN77-30/1-H-213/5TC	\$3,709.07
	40	39.76	44	9.21	11955	2050	184TC	3	132	KAN77-40/1-H-184TC	\$3,542.15	KHN77-40/1-H-184TC	\$3,709.07
	40	39.76	44	9.21	11955	1390	213TC	3	148	KAN77-40/1-H-213TC	\$3,542.15	KHN77-40/1-H-213TC	\$3,709.07
	50	51.18	34	7.72	12900	1940	184TC	3	132	KAN77-50/1-H-184TC	\$3,542.15	KHN77-50/1-H-184TC	\$3,709.07
	60	57.05	31	7.16	13325	2620	182/4TC	3	132	KAN77-60/1-H-182/4TC	\$3,542.15	KHN77-60/1-H-182/4TC	\$3,709.07
	65	64.06	27	6.56	13710	2610	182/4TC	3	132	KAN77-65/1-H-182/4TC	\$3,542.15	KHN77-65/1-H-182/4TC	\$3,709.07
	80	78.07	22	5.38	13710	3080	145TC	3	128	KAN77-80/1-H-145TC	\$3,542.15	KHN77-80/1-H-145TC	\$3,709.07
	80	78.07	22	5.38	13710	2570	182TC	3	132	KAN77-80/1-H-182TC	\$3,542.15	KHN77-80/1-H-182TC	\$3,709.07
	100	100.66	17	4.18	13710	3090	145TC	3	128	KAN77-100/1-H-145TC	\$3,542.15	KHN77-100/1-H-145TC	\$3,709.07
	100	100.66	17	4.18	13710	2450	182TC	3	132	KAN77-100/1-H-182TC	\$3,542.15	KHN77-100/1-H-182TC	\$3,709.07
	120	122.94	14	3.42	12240	3090	143TC	3	128	KAN77-120/1-H-143TC	\$3,542.15	KHN77-120/1-H-143TC	\$3,709.07
87	7.5	8.27	212	49.53	13365	2400	213/5TC	3	230	KAN87-7.5/1-H-213/5TC	\$5,553.57	KHN87-7.5/1-H-213/5TC	\$5,775.44
	7.5	8.27	212	49.53	13365	2070	254/6TC	3	257	KAN87-7.5/1-H-254/6TC	\$5,553.57	KHN87-7.5/1-H-254/6TC	\$5,775.44
	10	10.53	166	41.81	14370	2660	184TC	3	208	KAN87-10/1-H-184TC	\$5,553.57	KHN87-10/1-H-184TC	\$5,775.44
	10	10.53	166	41.81	14370	2520	213/5TC	3	230	KAN87-10/1-H-213/5TC	\$5,553.57	KHN87-10/1-H-213/5TC	\$5,775.44
	10	10.53	166	41.81	14370	2100	254/6TC	3	257	KAN87-10/1-H-254/6TC	\$5,553.57	KHN87-10/1-H-254/6TC	\$5,775.44
	15	15.66	112	31.67	16185	2690	213/5TC	3	230	KAN87-15/1-H-213/5TC	\$5,553.57	KHN87-15/1-H-213/5TC	\$5,775.44
	15	15.66	112	31.67	16185	2060	254/6TC	3	257	KAN87-15/1-H-254/6TC	\$5,553.57	KHN87-15/1-H-254/6TC	\$5,775.44
	20	20.90	84	25.88	17650	2780	213/5TC	3	230	KAN87-20/1-H-213/5TC	\$5,553.57	KHN87-20/1-H-213/5TC	\$5,775.44
	20	20.90	84	25.88	17650	1940	254/6TC	3	257	KAN87-20/1-H-254/6TC	\$5,553.57	KHN87-20/1-H-254/6TC	\$5,775.44
	30	28.30	62	20.93	19330	3200	184TC	3	208	KAN87-30/1-H-184TC	\$5,553.57	KHN87-30/1-H-184TC	\$5,775.44
	30	28.30	62	20.93	19330	2820	213/5TC	3	230	KAN87-30/1-H-213/5TC	\$5,553.57	KHN87-30/1-H-213/5TC	\$5,775.44
	30	28.30	62	20.93	19330	1700	254/6TC	3	257	KAN87-30/1-H-254/6TC	\$5,553.57	KHN87-30/1-H-254/6TC	\$5,775.44
	40	43.31	40	14.76	20870	3450	184TC	3	208	KAN87-40/1-H-184TC	\$5,553.57	KHN87-40/1-H-184TC	\$5,775.44
	40	43.31	40	14.76	20870	2930	213/5TC	3	230	KAN87-40/1-H-213/5TC	\$5,553.57	KHN87-40/1-H-213/5TC	\$5,775.44
	50	50.45	35	13.04	21470	3490	184TC	3	208	KAN87-50/1-H-184TC	\$5,553.57	KHN87-50/1-H-184TC	\$5,775.44
	50	50.45	35	13.04	21470	2890	213/5TC	3	230	KAN87-50/1-H-213/5TC	\$5,553.57	KHN87-50/1-H-213/5TC	\$5,775.44
	60	61.42	28	11.11	22270	3510	184TC	3	208	KAN87-60/1-H-184TC	\$5,553.57	KHN87-60/1-H-184TC	\$5,775.44
	60	61.42	28	11.11	22270	2780	213/5TC	3	230	KAN87-60/1-H-213/5TC	\$5,553.57	KHN87-60/1-H-213/5TC	\$5,775.44
	70	72.35	24	9.73	22970	3500	184TC	3	208	KAN87-70/1-H-184TC	\$5,553.57	KHN87-70/1-H-184TC	\$5,775.44
	70	72.35	24	9.73	22970	2640	213TC	3	230	KAN87-70/1-H-213TC	\$5,553.57	KHN87-70/1-H-213TC	\$5,775.44
97	80	82.86	21	8.72	23570	4260	182/4TC	3	208	KAN87-80/1-H-182/4TC	\$5,553.57	KHN87-80/1-H-182/4TC	\$5,775.44
	110	108.00	16	6.78	23900	4350	182TC	3	208	KAN87-110-H-182TC	\$5,553.57	KHN87-110-H-182TC	\$5,775.44
	120	117.56	15	6.23	23900	4370	182TC	3	208	KAN87-120-H-182TC	\$5,553.57	KHN87-120-H-182TC	\$5,775.44
	7.5	8.31	211	81.48	22095	5190	254/6TC	3	393	KAN97-7.5/1-H-254/6TC	\$8,356.47	KHN97-7.5/1-H-254/6TC	\$8,637.17
	7.5	8.31	211	81.48	22095	4820	284/6TC	3	402	KAN97-7.5/1-H-284/6TC	\$8,356.47	KHN97-7.5/1-H-284/6TC	\$8,637.17
	10	10.16	172	70.80	23465	5770	213/5TC	3	362	KAN97-10/1-H-213/5TC	\$8,356.47	KHN97-10/1-H-213/5TC	\$8,637.17
	10	10.16	172	70.80	23465	5420	254/6TC	3	393	KAN97-10/1-H-254/6TC	\$8,356.47	KHN97-10/1-H-254/6TC	\$8,637.17
	10	10.16	172	70.80	23465	4970	284/6TC	3	402	KAN97-10/1-H-284/6TC	\$8,356.47	KHN97-10/1-H-284/6TC	\$8,637.17
	15	14.11	124	64.78	29820	6320	213/5TC	3	362	KAN97-15/1-H-213/5TC	\$8,356.47	KHN97-15/1-H-213/5TC	\$8,637.17
	15	14.11	124	64.78	29820	5900	254/6TC	3	393	KAN97-15/1-H-254/6TC	\$8,356.47	KHN97-15/1-H-254/6TC	\$8,637.17
	15	14.11	124	64.78	29820	5350	284/6TC	3	402	KAN97-15/1-H-284/6TC	\$8,356.47	KHN97-15/1-H-284/6TC	\$8,637.17
	20	21.33	82	48.50	33760	7000	213/5TC	3	362	KAN97-20/1-H-213/5TC	\$8,356.47	KHN97-20/1-H-213/5TC	\$8,637.17
	20	21.33	82	48.50	33760	6360	254/6TC	3	393	KAN97-20/1-H-254/6TC	\$8,356.47	KHN97-20/1-H-254/6TC	\$8,637.17
	20	21.33	82	48.50	33760	5520	284/6TC	3	402	KAN97-20/1-H-284/6TC	\$8,356.47	KHN97-20/1-H-284/6TC	\$8,637.17
	30	31.19	56	28.65	29165	6450	254/6TC	3	393	KAN97-30/1-H-254/6TC	\$8,356.47	KHN97-30/1-H-254/6TC	\$8,637.17
	30	31.19	56	28.65	29165	5060	284/6TC	3	402	KAN97-30/1-H-284/6TC	\$8,356.47	KHN97-30/1-H-284/6TC	\$8,637.17
	40	38.12	46	23.33	29030	7800	213/5TC	3	362	KAN97-40/1-H-213/5TC	\$8,356.47	KHN97-40/1-H-213/5TC	\$8,637.17
	40	38.12	46	23.33	29030	6520	254/6TC	3	393	KAN97-40/1-H-254/6TC	\$8,356.47	KHN97-40/1-H-254/6TC	\$8,637.17
	50	47.16	37	18.78	28910	8100	213/5TC	3	362	KAN97-50/1-H-213/5TC	\$8,356.47	KHN97-50/1-H-213/5TC	\$8,637.17
	50	47.16	37	18.78	28910	6510	254/6TC	3	393	KAN97-50/1-H-254/6TC	\$8,356.47	KHN97-50/1-H-254/6TC	\$8,637.17
100	65	64.72	27	18.02	38060	8550	213/5TC	3	362	KAN97-65/1-H-213/5TC	\$8,356.47	KHN97-65/1-H-213/5TC	\$8,637.17
	65	64.72	27	18.02	38060	6810	254TC	3	393	KAN97-65/1-H-254TC	\$8,356.47	KHN97-65/1-H-254TC	\$8,637.17
	70	71.78	24	16.24	38060	8550	213/5TC	3	362	KAN97-70/1-H-213/5TC	\$8,356.47	KHN97-70/1-H-213/5TC	\$8,637.17
	80	80.07	22	14.56	38060	8550	213/5TC	3	362	KAN97-80/1-H-213/5TC	\$8,356.47	KHN97-80/1-H-213/5TC	\$8,637.17
	100	101.37	17	11.50	38060	8550	213/5TC	3	362	KAN97-100/1-H-213/5TC	\$8,356.47	KHN97-100/1-H-213/5TC	\$8,637.17
	120	119.87	15	9.73	38060	8550	213TC	3	362	KAN97-120/1-H-213TC	\$8,356.47	KHN97-120/1-H-213TC	\$8,637.17

KAN & KHN Series - Helical Bevel Reducers: Mechanical Ratings

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	56C			143TC			145TC			182TC			184TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
37	5	4.73	370	8.50	1310	56C	3	0.75	117	400												
	5	4.73	370	8.50	1310	143/5TC	3				1	156	395	2	312	375						
	7.5	7.96	220	6.00	1559	56C	3	0.75	197	465												
	7.5	7.96	220	6.00	1559	143/5TC	3				1	263	460	2	526	425						
	10	11.09	158	4.33	1565	56C	3	0.75	275	520												
	10	11.09	158	4.33	1565	143/5TC	3				1	367	510	2	733	475						
	15	15.32	114	3.14	1568	56C	3	0.75	380	575												
	15	15.32	114	3.14	1568	143/5TC	3				1	506	560	2	1013	510						
	25	23.10	76	2.20	1659	56C	3	0.75	573	635												
	25	23.10	76	2.20	1659	143/5TC	3				1	764	610	2	1528	505						
	30	32.19	54	1.66	1747	56C	3	0.75	798	705												
	30	32.19	54	1.66	1747	143TC	3				1	1065	680									
	40	37.97	46	1.43	1770	56C	3	0.75	942	735												
	40	37.97	46	1.43	1770	143TC	3				1	1256	705									
	50	49.51	35	1.10	1770	56C	3	0.75	1228	785												
	60	59.67	29	0.91	1770	56C	3	0.75	1480	815												
47	5	5.85	299	9.20	1757	145TC	3							2	387	505						
	5	5.85	299	9.20	1757	182/4TC	3										3	581	485	5	968	445
	7.5	7.11	246	8.08	1875	143/5TC	3							2	470	530						
	7.5	7.11	246	8.08	1875	182/4TC	3										3	706	510	5	1176	460
	10	9.95	176	6.46	2097	56C	3	0.75	247	620												
	10	9.95	176	6.46	2097	143/5TC	3				1	329	615	2	658	580						
	10	9.95	176	6.46	2097	182/4TC	3										3	987	550	5	1645	470
	15	16.99	103	4.52	2507	143/5TC	3							2	1123	660						
	15	16.99	103	4.52	2507	182TC	3										3	1685	600			
	20	20.65	85	3.97	2675	143/5TC	3							2	1365	690						
	20	20.65	85	3.97	2675	182TC	3										3	2048	610			
	30	28.88	61	3.17	2991	56C	3	0.75	716	855												
	30	28.88	61	3.17	2991	143/5TC	3				1	955	830	2	1910	730						
	40	41.36	42	2.50	3372	56C	3	0.75	1026	945												
	40	41.36	42	2.50	3372	143/5TC	3				1	1368	905	2	2735	750						
	50	47.08	37	2.21	3400	56C	3	0.75	1168	975												
	50	47.08	37	2.21	3400	143TC	3				1	1557	935	2	3114	745						
	60	58.99	30	1.84	3540	56C	3	0.75	1463	1030												
	60	58.99	30	1.84	3540	143TC	3				1	1951	980									
	70	71.78	24	1.51	3540	56C	3	0.75	1780	1070												
	70	71.78	24	1.51	3540	143TC	3				1	2373	1000									
	85	86.89	20	1.42	3540	56C	3	0.75	2155	1110												
67	10	9.66	181	12.06	3800	145TC	3							2	639	1500						
	10	9.66	181	12.06	3800	182/4TC	3										3	958	1410	5	1597	1240
	15	14.16	124	9.23	4265	56C	3	0.75	351	1770												
	15	14.16	124	9.23	4265	143/5TC	3				1	468	1740	2	936	1620						
	15	14.16	124	9.23	4265	182/4TC	3										3	1404	1500	5	2341	1250
	20	22.18	79	6.26	4530	145TC	3							1	1467	1760						
	20	22.18	79	6.26	4530	182/4TC	3										3	2201	1570	5	3668	1190
	30	30.90	57	5.34	5390	145TC	3							2	2043	1820						
	30	30.90	57	5.34	5390	182/4TC	3										3	3065	1550	5	5109	1010
	40	37.98	46	4.62	5730	56C	3	0.75	942	2140												
	40	37.98	46	4.62	5730	143/5TC	3				1	1256	2140	2	2512	1850						
	40	37.98	46	4.62	5730	182TC	3										3	3768	1510			
	45	46.33	38	4.02	6080	56C	3	0.75	1149	2140												
	45	46.33	38	4.02	6080	143/5TC	3				1	1532	2140	2	3064	1850						
	45	46.33	38	4.02	6080	182TC	3										3	4596	1450			
	65	64.97	27	2.95	6260	56C	3	0.75	1611	2140												
	65	64.97	27	2.95	6260	143/5TC	3				1	2148	2140	2	4297	1840						
	85	84.10	21	2.46	6760	56C	3	0.75	2086	2140												
	85	84.10	21	2.46	6760	143/5TC	3				1	2781	2140	2	5562	1750						
	110	108.03	16	2.06	7260	56C	3	0.75	2679	2140												
	110	108.03	16	2.06	7260	143TC	3				1	3572	2140									
	120	118.14	15	1.88	7260	56C	3	0.75	2930	2140												
	120	118.14	15	1.88	7260	143TC	3				1	3906	2140									

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KAN & KHN Series - Helical Bevel Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	56C			143TC			145TC			182TC			184TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	8.40	208	27.05	7415	184TC	3													5	1389	1810
	7.5	8.40	208	27.05	7415	213/5TC	3													5	1646	1860
	10	9.96	176	24.02	7800	184TC	3															
	10	9.96	176	24.02	7800	213/5TC	3													5	2600	2030
	15	15.73	111	17.64	9050	184TC	3															
	15	15.73	111	17.64	9050	213/5TC	3													5	3347	2080
	20	20.24	86	14.78	9765	184TC	3															
	20	20.24	86	14.78	9765	213/5TC	3													5	5039	2020
	30	30.48	57	10.97	10915	184TC	3															
	30	30.48	57	10.97	10915	213/5TC	3													5	6574	2050
	40	39.76	44	9.21	11955	184TC	3															
	40	39.76	44	9.21	11955	213TC	3															
	50	51.18	34	7.72	12900	184TC	3													5	8461	1940
	60	57.05	31	7.16	13325	182/4TC	3										3	5660	2620	5	9433	1860
	65	64.06	27	6.56	13710	182/4TC	3										3	6355	2610	5	10591	1760
	80	78.07	22	5.38	13710	145TC	3							2	5163	3080						
	80	78.07	22	5.38	13710	182TC	3										3	7745	2570			
	100	100.66	17	4.18	13710	145TC	3							2	6657	3090						
	100	100.66	17	4.18	13710	182TC	3										3	9986	2450			
	120	122.94	14	3.42	8125	143TC	3				1	4065	3090									
87	7.5	8.27	212	49.53	13365	213/5TC	3															
	7.5	8.27	212	49.53	13365	254/6TC	3															
	10	10.53	166	41.81	14370	184TC	3													5	1741	2660
	10	10.53	166	41.81	14370	213/5TC	3															
	10	10.53	166	41.81	14370	254/6TC	3															
	15	15.66	112	31.67	16185	213/5TC	3															
	15	15.66	112	31.67	16185	254/6TC	3															
	20	20.90	84	25.88	17650	213/5TC	3															
	20	20.90	84	25.88	17650	254/6TC	3															
	30	28.30	62	20.93	19330	184TC	3													5	4679	3200
	30	28.30	62	20.93	19330	213/5TC	3															
	30	28.30	62	20.93	19330	254/6TC	3															
	40	43.31	40	14.76	20870	184TC	3													5	7161	3450
	40	43.31	40	14.76	20870	213/5TC	3															
	50	50.45	35	13.04	21470	184TC	3													5	8342	3490
	50	50.45	35	13.04	21470	213/5TC	3															
	60	61.42	28	11.11	22270	184TC	3													5	10154	3510
	60	61.42	28	11.11	22270	213/5TC	3															
	70	72.35	24	9.73	22970	184TC	3													5	11961	3500
	70	72.35	24	9.73	22970	213TC	3															
	80	82.86	21	8.72	23570	182/4TC	3										3	8220	4260	5	13700	3470
	110	108.00	16	6.78	23900	182TC	3										3	10714	4350			
	120	117.56	15	6.23	23900	182TC	3										3	11662	4370			
97	7.5	8.31	211	81.48	22095	254/6TC	3															
	7.5	8.31	211	81.48	22095	284/6TC	3															
	10	10.16	172	70.80	23465	213/5TC	3															
	10	10.16	172	70.80	23465	254/6TC	3															
	10	10.16	172	70.80	23465	284/6TC	3															
	15	14.11	124	64.78	29820	213/5TC	3															
	15	14.11	124	64.78	29820	254/6TC	3															
	15	14.11	124	64.78	29820	284/6TC	3															
	20	21.33	82	48.50	33760	213/5TC	3															
	20	21.33	82	48.50	33760	254/6TC	3															
	20	21.33	82	48.50	33760	284/6TC	3															
	30	31.19	56	28.65	29165	254/6TC	3															
	30	31.19	56	28.65	29165	284/6TC	3															
	40	38.12	46	23.33	29030	213/5TC	3															
	40	38.12	46	23.33	29030	254/6TC	3															
	50	47.16	37	18.78	28910	213/5TC	3															
	50	47.16	37	18.78	28910	254/6TC	3															
	65	64.72	27	18.02	38060	213/5TC	3															
	65	64.72	27	18.02	38060	254TC	3															
	70	71.78	24	16.24	38060	213/5TC	3															
	80	80.07	22	14.56	38060	213/5TC	3															
	100	101.37	17	11.50	38060	213/5TC	3															
	120	119.87	15	9.73	38060	213TC	3															

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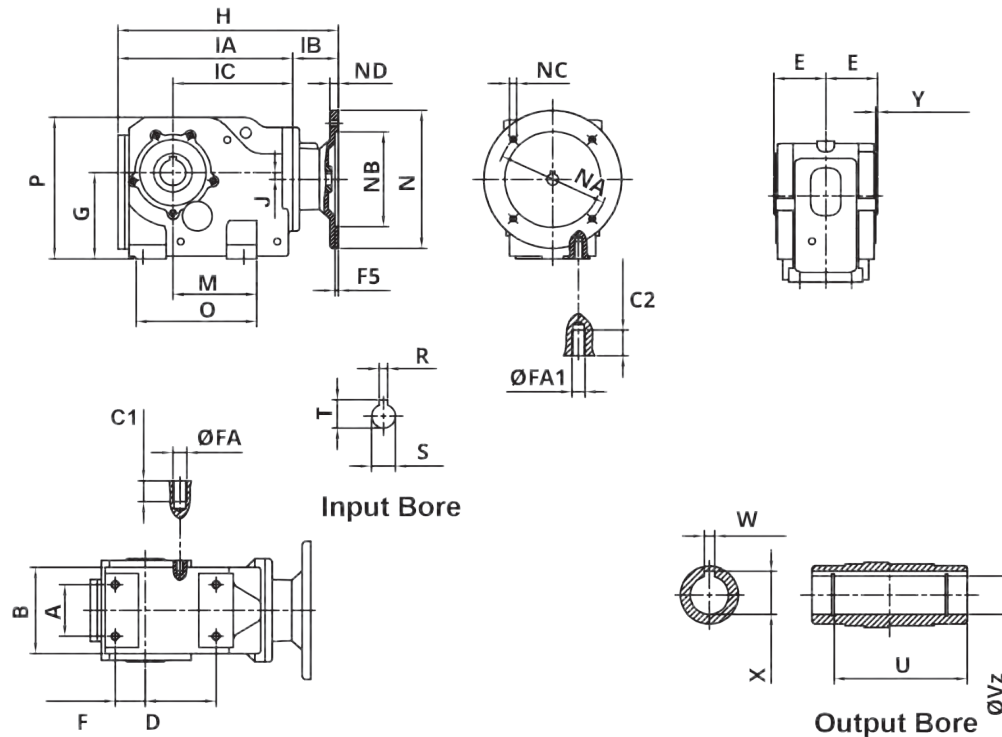
KAN & KHN Series - Helical Bevel Reducers: Mechanical Ratings (cont.)

Box Size	Nominal Ratio	Actual Ratio	Output RPM	Input HP	Output Torque (lbs. in.)	Motor Frame	Stages	213TC			215TC			254TC			256TC			284TC			286TC		
								HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL	HP	T	OHL
77	7.5	8.40	208	27.05	7415	184TC	3																		
	7.5	8.40	208	27.05	7415	213/5TC	3	7.5	2084	1660	10	2778	1510												
	10	9.96	176	24.02	7800	184TC	3																		
	10	9.96	176	24.02	7800	213/5TC	3	7.5	2469	1690	10	3292	1510												
	15	15.73	111	17.64	9050	184TC	3																		
	15	15.73	111	17.64	9050	213/5TC	3	7.5	3900	1760	10	5200	1510												
	20	20.24	86	14.78	9765	184TC	3																		
	20	20.24	86	14.78	9765	213/5TC	3	7.5	5020	1740	10	6694	1410												
	30	30.48	57	10.97	10915	184TC	3																		
	30	30.48	57	10.97	10915	213/5TC	3	7.5	7559	1470	10	10079	925												
	40	39.76	44	9.21	11955	184TC	3																		
	40	39.76	44	9.21	11955	213TC	3	7.5	9861	1390															
	50	51.18	34	7.72	12900	184TC	3																		
	60	57.05	31	7.16	13325	182/4TC	3																		
	65	64.06	27	6.56	13710	182/4TC	3																		
	80	78.07	22	5.38	13710	145TC	3																		
	80	78.07	22	5.38	13710	182TC	3																		
87	100	100.66	17	4.18	13710	145TC	3																		
	100	100.66	17	4.18	13710	182TC	3																		
	120	122.94	14	3.42	8125	143TC	3																		
	7.5	8.27	212	49.53	13365	213/5TC	3	7.5	2050	2400	10	2734	2290	15	4100	2070	20	5467	1850						
	7.5	8.27	212	49.53	13365	254/6TC	3																		
	10	10.53	166	41.81	14370	184TC	3																		
	10	10.53	166	41.81	14370	213/5TC	3	7.5	2612	2520	10	3483	2380												
	10	10.53	166	41.81	14370	254/6TC	3							15	5224	2100	20	6965	1820						
	15	15.66	112	31.67	16185	213/5TC	3	7.5	3885	2690	10	5179	2480												
	15	15.66	112	31.67	16185	254/6TC	3							15	7769	2060	20	10359	1640						
	20	20.90	84	25.88	17650	213/5TC	3	7.5	5183	2780	10	6911	2500												
	20	20.90	84	25.88	17650	254/6TC	3							15	10367	1940	20	13822	1390						
	30	28.30	62	20.93	19330	184TC	3																		
	30	28.30	62	20.93	19330	213/5TC	3	7.5	7019	2820	10	9359	2450												
	30	28.30	62	20.93	19330	254/6TC	3							15	14038	1700	20	18717	940						
	40	43.31	40	14.76	20870	184TC	3																		
	40	43.31	40	14.76	20870	213/5TC	3	7.5	10742	2930	10	14322	2410												
	50	50.45	35	13.04	21470	184TC	3																		
	50	50.45	35	13.04	21470	213/5TC	3	7.5	12512	2890	10	16683	2280												
97	60	61.42	28	11.11	22270	184TC	3																		
	60	61.42	28	11.11	22270	213/5TC	3	7.5	15232	2780	10	20309	2040												
	70	72.35	24	9.73	22970	184TC	3																		
	70	72.35	24	9.73	22970	213TC	3	7.5	17942	2640															
	80	82.86	21	8.72	23570	182/4TC	3																		
	110	108.00	16	6.78	23900	182TC	3																		
	120	117.56	15	6.23	23900	182TC	3																		
	7.5	8.31	211	81.48	22095	254/6TC	3							15	4121	5190	20	5495	5010						
	7.5	8.31	211	81.48	22095	284/6TC	3													25	6869	4820	30	8243	4630
	10	10.16	172	70.80	23465	213/5TC	3	7.5	2519	5770	10	3358	5660												
	10	10.16	172	70.80	23465	254/6TC	3							15	5037	5420	20	6716	5200						
	10	10.16	172	70.80	23465	284/6TC	3													25	8395	4970	30	10074	4740
	15	14.11	124	64.78	29820	213/5TC	3	7.5	3498	6320	10	4665	6180												
	15	14.11	124	64.78	29820	254/6TC	3							15	6997	5900	20	9329	5620						
	15	14.11	124	64.78	29820	284/6TC	3													25	11661	5350	30	13994	5070
	20	21.33	82	48.50	33760	213/5TC	3	7.5	5290	7000	10	7053	6790												
	20	21.33	82	48.50	33760	254/6TC	3							15	10579	6360	20	14106	5940						
	20	21.33	82	48.50	33760	284/6TC	3													25	17632	5520	30	21159	5100
	30	31.19	56	28.65	29165	254/6TC	3							15	15472	6450	20	20629	5760						
	30	31.19	56	28.65	29165	284/6TC	3													25	25786	5060			
	40	38.12	46	23.33	29030	213/5TC	3	7.5	9455	7800	10	12606	7370												
	40	38.12	46	23.33	29030	254/6TC	3							15	18910	6520	20	25213	5670						
	50	47.16	37	18.78	28910	213/5TC	3	7.5	11696	8100	10	15595	7570												
	50	47.16	37	18.78	28910	254/6TC	3							15	23393	6510	20	31191	5460						
	65	64.72	27	18.02	38060	213/5TC	3	7.5	16052	8550	10	21402	8090												
	65	64.72	27	18.02	38060	254TC	3							15	32103	6810									
	70	71.78	24	16.24	38060	213/5TC	3	7.5	17803	8550	10	23737	8140												
	80	80.07	22	14.56	38060	213/5TC	3	7.5	19857	8550	10	26477	8180												
	100	101.37	17	11.50	38060	213/5TC	3	7.5	25141	8550	10	33521	8170												
	120	119.87	15	9.73	38060	213TC	3	7.5	29729	8550															

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KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

3 KAN Series - Helical Bevel Reducers: Dimensions



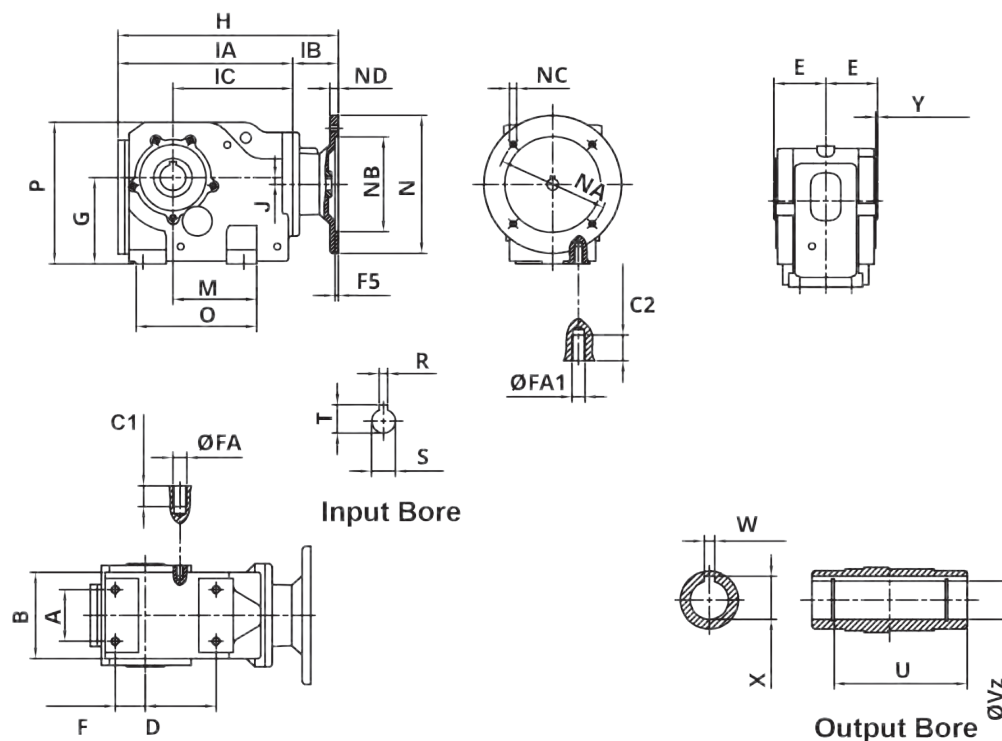
All listed dimensions in inches

Box Size	NEMA Frame	A	B	C1	C2	D	E	E1	F	FA	FA1	F5	G	H	IA	IB	IC	J	M	O	P
37	56C	2.36	3.94	0.47	0.79	3.23	2.36	2.36	1.38	M8	M10	0.08	3.94	10.35	7.99	2.40	5.47	0.31	3.82	5.51	6.46
	143/5TC	2.36	3.94	0.47	0.79	3.23	2.36	2.36	1.38	M8	M10	0.08	3.94	10.75	7.99	2.80	5.47	0.31	3.82	5.51	6.46
47	56C	2.76	4.17	0.47	0.79	3.94	2.95	2.95	1.57	M8	M10	0.12	4.41	10.35	9.41	2.4	6.54	0.21	4.41	6.65	7.32
	143/5TC	2.76	4.17	0.47	0.79	3.94	2.95	2.95	1.57	M8	M10	0.12	4.41	10.75	9.41	2.8	6.54	0.21	4.41	6.65	7.32
	182/4TC	2.76	4.17	0.47	0.79	3.94	2.95	2.95	1.57	M8	M10	0.12	4.41	12.68	9.41	3.35	6.54	0.21	4.41	6.65	7.32
67	56C	3.46	5.28	0.79	0.98	4.33	3.54	3.54	1.65	M12	M12	0.14	5.51	12.74	10.75	2.15	7.05	0.75	4.72	6.89	8.98
	143/5TC	3.46	5.28	0.79	0.98	4.33	3.54	3.54	1.65	M12	M12	0.14	5.51	13.13	10.75	2.54	7.05	0.75	4.72	6.89	8.98
	182/4TC	3.46	5.28	0.79	0.98	4.33	3.54	3.54	1.65	M12	M12	0.14	5.51	13.23	10.75	3.27	7.05	0.75	4.72	6.89	8.98
77	143/5TC	4.02	6.46	0.79	1.26	4.80	4.13	4.13	1.89	M12	M16	0.16	7.09	14.69	12.81	2.32	7.95	1.47	5.91	8.66	15.54
	182/4TC	4.02	6.46	0.79	1.26	4.80	4.13	4.13	1.89	M12	M16	0.20	7.09	15.41	12.81	3.05	7.95	1.47	5.91	8.66	15.54
	213/5TC	4.02	6.46	0.79	1.26	4.80	4.13	4.13	1.89	M12	M16	0.20	7.09	17.68	12.81	5.31	7.95	1.47	5.91	8.66	15.54
87	182/4TC	4.65	5.98	1.02	1.26	6.30	4.72	4.72	2.56	M16	M16	0.20	8.35	15.41	15.35	2.68	10.12	1.24	7.48	10.79	13.39
	213/5TC	4.65	5.98	1.02	1.26	6.30	4.72	4.72	2.56	M16	M16	0.20	8.35	17.68	15.35	5.31	10.12	1.24	7.48	10.79	13.39
	254/6TC	4.65	5.98	1.02	1.26	6.30	4.72	4.72	2.56	M16	M16	0.20	8.35	21.24	15.35	5.93	10.12	1.24	7.48	10.79	13.39
97	213/5TC	6.30	9.21	1.02	1.42	6.50	5.91	5.91	3.27	M16	M20	0.20	10.43	21.83	17.64	4.63	10.91	1.82	8.07	12.20	16.42
	254/6TC	6.30	9.21	1.02	1.42	6.50	5.91	5.91	3.27	M16	M20	0.20	10.43	22.81	17.64	5.61	10.91	1.82	8.07	12.20	16.42
	284/6TC	6.30	9.21	1.02	1.42	6.50	5.91	5.91	3.27	M16	M20	0.20	10.43	23.17	17.64	5.96	10.91	1.82	8.07	12.20	16.42

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Continued On Next Page

KAN Series - Helical Bevel Reducers: Dimensions (cont.)



All listed dimensions in inches															
Box Size	NEMA Frame	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
		N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	6.50	5.875	4.50	0.41	0.39	0.188	0.625	0.71	4.13	1.25	0.25	1.37	0.08	+ 0.001 / -0.0
	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.97	4.13	1.25	0.25	1.37	0.08	+ 0.001 / -0.0
47	56C	6.50	5.875	4.50	0.41	0.39	0.188	0.625	0.71	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.97	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
67	56C	6.50	5.875	4.50	0.41	0.39	0.188	0.625	0.71	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	143/5TC	6.50	5.875	4.50	0.41	0.47	0.188	0.875	0.96	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
77	143/5TC	6.50	5.875	4.50	0.41	0.39	0.188	0.875	0.96	7.20	2.00	0.50	2.25	0.16	+ 0.001 / -0.0
	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	7.20	2.00	0.50	2.25	0.16	+ 0.001 / -0.0
	213/5TC	9.00	7.250	8.50	0.55	0.67	0.312	1.375	1.52	7.20	2.00	0.50	2.25	0.16	+ 0.001 / -0.0
87	182/4TC	9.00	7.250	8.50	0.55	0.67	0.250	1.125	1.24	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
	213/5TC	9.00	7.250	8.50	0.55	0.67	0.312	1.375	1.52	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
	254/6TC	10.00	7.250	8.50	0.55	0.79	0.375	1.625	1.80	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
97	213/5TC	9.00	7.250	8.50	0.55	0.67	0.312	1.375	1.52	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0
	254/6TC	10.00	7.250	8.50	0.55	0.79	0.375	1.625	1.80	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0
	284/6TC	11.26	9.000	10.50	0.59	0.79	0.500	1.875	2.10	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0

Dimensions shown in this catalog are for general use only.
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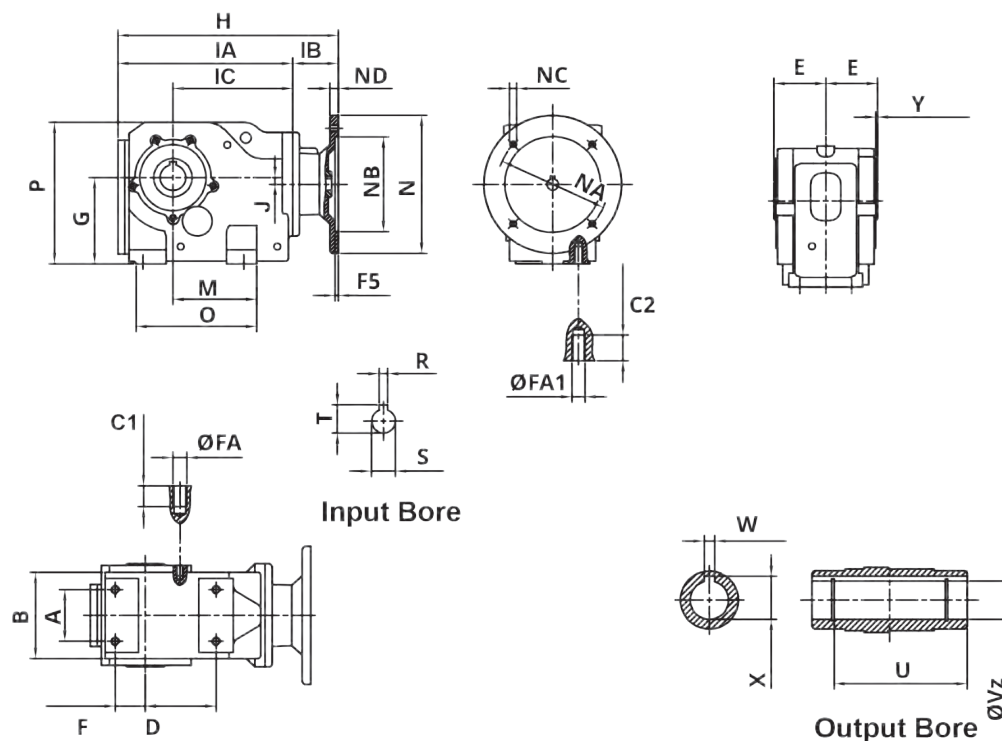
KAN Series - Helical Bevel Reducers: Integrated B14 Output Flange Dimensions

**KAN37****KAN47****KAN67****KAN77****KAN87****KAN97**

KAN Series Integrated B14 Output Flange Competitor Dimensional Comparison - SEW Eurodrive

**KA37****KA47****KA67****KA77****KA87****KA97**

KAN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive



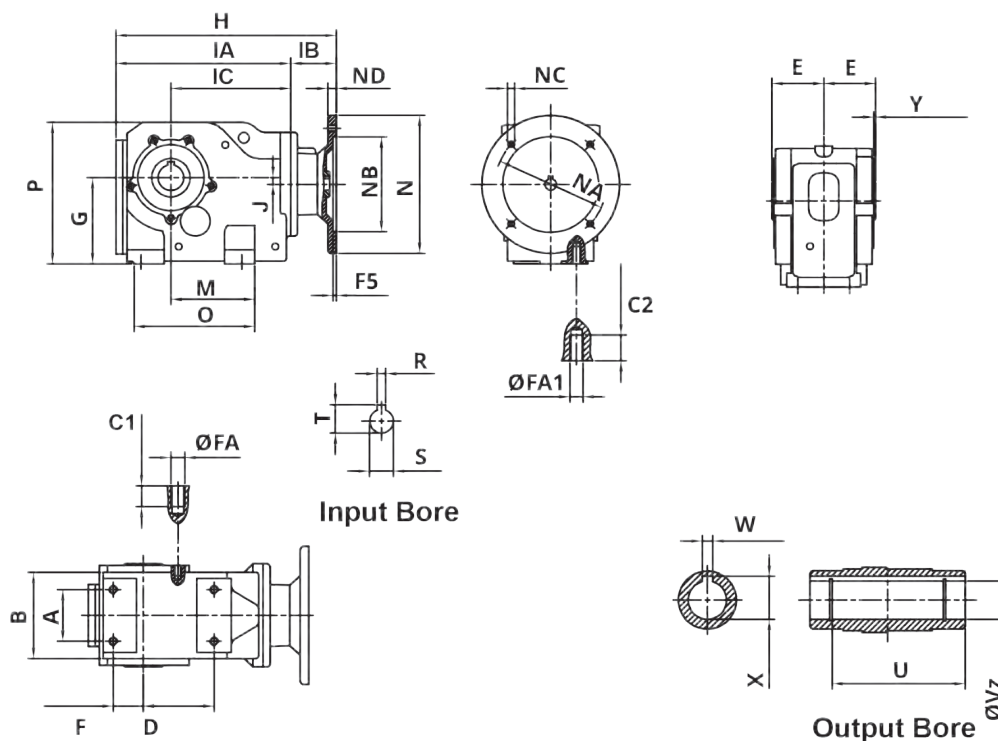
All listed dimensions in inches

Box Size	NEMA Frame	A	B	C1	C2	D	E	E1	F	FA	FA1	F5	G	H	IA	IB	IC	J	M	O	P
37	56C	2.36	3.94	0.47	0.79	3.23	2.48	2.36	1.38	M8	M10	0.10	3.94	11.95	8.27	3.68	5.47	0.33	3.82	5.79	6.46
	143/5TC	2.36	3.94	0.47	0.79	3.23	2.48	2.36	1.38	M8	M10	0.10	3.94	12.88	8.27	4.61	5.47	0.33	3.82	5.79	6.46
47	56C	2.76	4.33	0.47	0.79	3.94	3.07	2.95	1.57	M8	M10	0.12	4.41	13.00	9.57	3.43	6.54	0.33	4.53	6.69	7.28
	143/5TC	2.76	4.33	0.47	0.79	3.94	3.07	2.95	1.57	M8	M10	0.12	4.41	13.92	9.57	4.35	6.54	0.33	4.53	6.69	7.28
	182/4TC	2.76	4.33	0.47	0.79	3.94	3.07	2.95	1.57	M8	M10	0.12	4.41	15.38	9.57	5.81	6.54	0.33	4.53	6.69	7.28
67	56C	3.46	5.12	0.79	0.98	4.33	3.70	3.54	1.65	M12	M12	0.14	5.51	14.22	10.79	3.43	7.05	0.79	4.92	7.17	8.90
	143/5TC	3.46	5.12	0.79	0.98	4.33	3.70	3.54	1.65	M12	M12	0.14	5.51	15.14	10.79	4.35	7.05	0.79	4.92	7.17	8.90
	182/4TC	3.46	5.12	0.79	0.98	4.33	3.70	3.54	1.65	M12	M12	0.14	5.51	16.60	10.79	5.81	7.05	0.79	4.92	7.17	8.90
77	143/5TC	4.02	6.06	0.79	1.26	4.80	4.25	4.13	1.89	M12	M16	0.18	7.09	16.35	12.28	4.07	7.95	1.23	5.47	8.03	11.26
	182/4TC	4.02	6.06	0.79	1.26	4.80	4.25	4.13	1.89	M12	M16	0.20	7.09	17.77	12.28	5.49	7.95	1.23	5.47	8.03	11.26
	213/5TC	4.02	6.06	0.79	1.26	4.80	4.25	4.13	1.89	M12	M16	0.20	7.09	19.70	12.28	7.42	7.95	1.23	5.47	10.79	11.26
87	182/4TC	4.65	6.69	1.02	1.26	6.30	4.84	4.72	2.56	M16	M16	0.20	8.35	20.65	15.35	5.3	10.12	1.02	7.48	11.02	13.31
	213/5TC	4.65	6.69	1.02	1.26	6.30	4.84	4.72	2.56	M16	M16	0.20	8.35	22.57	15.35	7.22	10.12	1.02	7.48	11.02	13.31
	254/6TC	4.65	6.69	1.02	1.26	6.30	4.84	4.72	2.56	M16	M16	0.20	8.35	24.56	15.35	9.21	10.12	1.02	7.48	11.02	13.31
97	213/5TC	6.30	8.90	1.02	1.42	6.50	6.02	5.91	3.27	M16	M20	0.20	10.44	24.16	17.13	7.03	10.91	1.27	7.48	11.73	16.30
	254/6TC	6.30	8.90	1.02	1.42	6.50	6.02	5.91	3.27	M16	M20	0.20	10.44	26.15	17.13	9.02	10.91	1.27	7.48	11.73	16.30
	284/6TC	6.30	8.90	1.02	1.42	6.50	6.02	5.91	3.27	M16	M20	0.20	10.44	26.42	17.13	9.29	10.91	1.27	7.48	11.73	16.30

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

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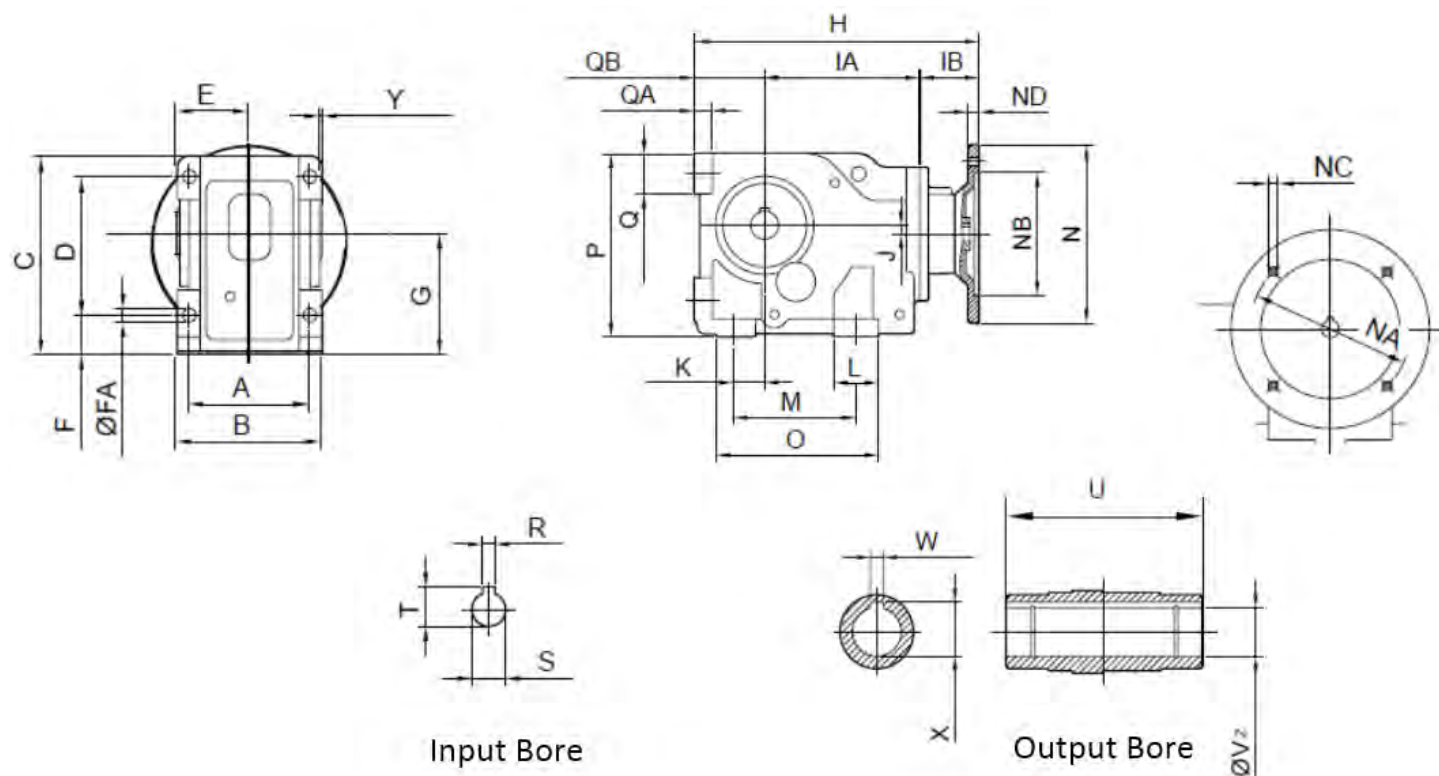
KAN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive (cont.)



All listed dimensions in inches															
Box Size	NEMA Frame	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
		N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	6.69	5.875	4.50	0.41	0.43	0.188	0.625	0.71	4.13	1.25	0.25	1.37	0.10	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	4.13	1.25	0.25	1.37	0.10	+ 0.001 / -0.0
47	56C	6.69	5.875	4.50	0.41	0.43	0.188	0.625	0.71	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
	182/4TC	8.98	7.250	8.50	0.59	0.39	0.250	1.125	1.24	5.20	1.375	0.31	1.52	0.12	+ 0.001 / -0.0
67	56C	6.69	5.875	4.50	0.41	0.43	0.188	0.625	0.71	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	182/4TC	8.98	7.250	8.50	0.59	0.39	0.250	1.125	1.24	6.14	1.50	0.38	1.67	0.14	+ 0.001 / -0.0
	143/5TC	6.69	5.875	4.50	0.41	0.47	0.188	0.875	0.98	7.20	2.00	0.50	2.22	0.16	+ 0.001 / -0.0
77	182/4TC	6.69	7.250	8.50	0.59	0.39	0.250	1.125	1.24	7.20	2.00	0.50	2.22	0.16	+ 0.001 / -0.0
	213/5TC	8.98	7.250	8.50	0.59	0.43	0.312	1.375	1.52	7.20	2.00	0.50	2.22	0.16	+ 0.001 / -0.0
	182/4TC	8.98	7.250	8.50	0.59	0.39	0.250	1.125	1.24	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
87	213/5TC	8.98	7.250	8.50	0.59	0.43	0.312	1.375	1.52	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
	254/6TC	8.98	7.250	8.50	0.59	0.47	0.375	1.625	1.80	8.27	2.375	0.63	2.65	0.16	+ 0.001 / -0.0
	213/5TC	8.98	7.250	8.50	0.59	0.43	0.312	1.375	1.52	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0
97	254/6TC	8.98	7.250	8.50	0.59	0.47	0.375	1.625	1.80	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0
	284/6TC	11.26	9.000	10.50	0.59	0.79	0.500	1.875	2.10	10.63	2.75	0.63	3.03	0.16	+ 0.001 / -0.0

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

KHN Series - Helical Bevel Reducers: Dimensions



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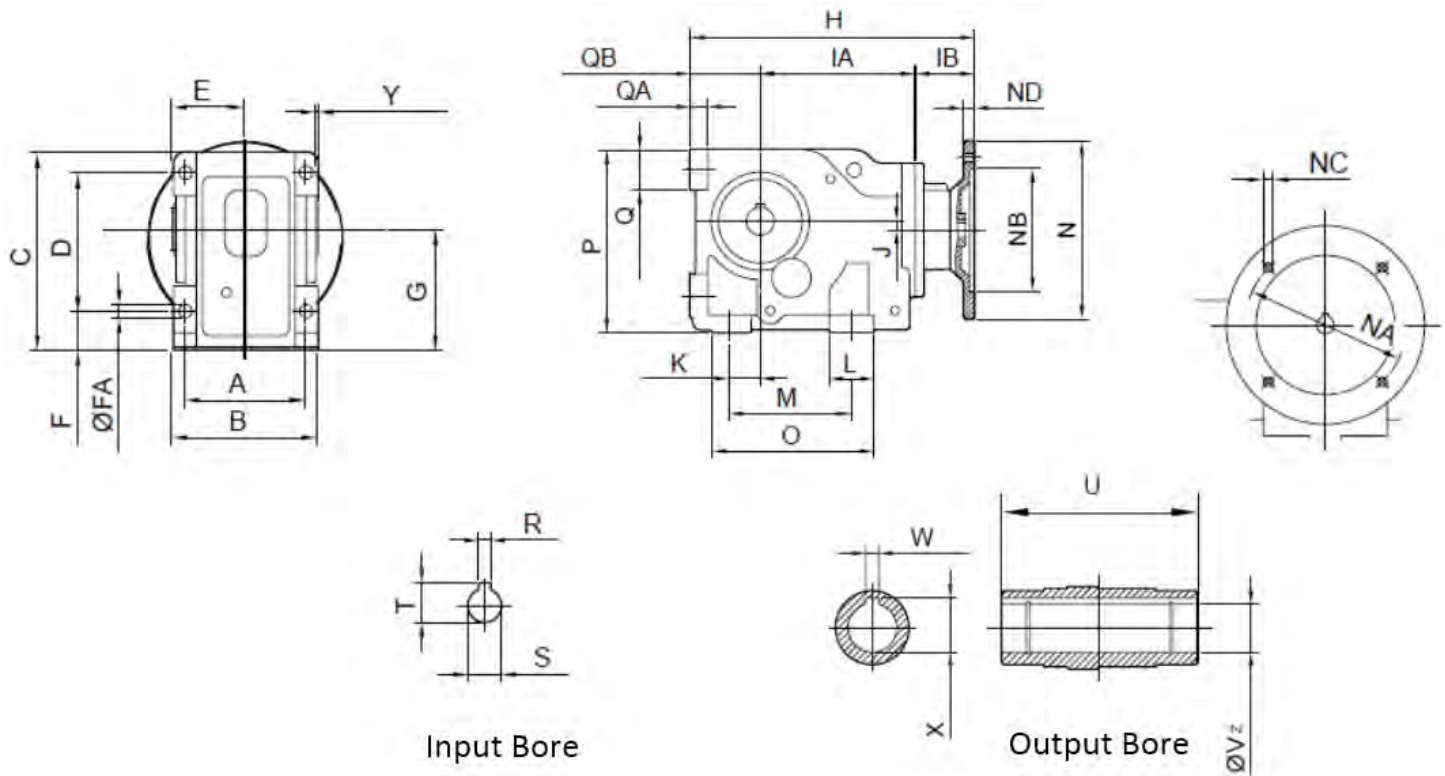
KAN & KHN SERIES - HELICAL
BEVEL GEAR REDUCERS

All listed dimensions in inches																		
Box Size	NEMA Frame	A	B	C	D	E	F	FA	G	H	IA	IB	J	K	L	M	O	P
37	56C	3.94	4.72	6.46	4.53	2.36	1.26	0.43	3.94	10.35	5.47	2.40	0.31	1.10	1.57	4.33	5.71	6.46
	143/5TC	3.94	4.72	6.46	4.53	2.36	1.26	0.43	3.94	10.75	5.47	2.80	0.31	1.10	1.57	4.33	5.71	6.46
47	56C	4.72	5.71	7.32	5.12	2.85	1.46	0.43	4.41	10.35	6.54	2.40	0.20	1.38	1.50	5.12	6.65	7.32
	143/5TC	4.72	5.71	7.32	5.12	2.85	1.46	0.43	4.41	10.75	6.54	2.80	0.20	1.38	1.50	5.12	6.65	7.32
	182/4TC	4.72	5.71	7.32	5.12	2.85	1.46	0.43	4.41	12.68	6.54	3.35	0.20	1.38	1.50	5.12	6.65	7.32
67	56C	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	12.74	7.05	2.15	0.75	1.18	1.77	4.72	6.69	8.98
	143/5TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	13.13	7.05	2.54	0.75	1.18	1.77	4.72	6.69	8.98
	182/4TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	13.23	7.05	3.27	0.75	1.18	1.77	4.72	6.69	8.98
77	143/5TC	6.50	7.87	11.54	7.87	3.94	2.17	0.69	7.09	14.69	7.95	2.32	1.47	1.57	2.56	5.91	8.66	11.54
	182/4TC	6.50	7.87	11.54	7.87	3.94	2.17	0.69	7.09	15.41	7.95	3.05	1.47	1.57	2.56	5.91	8.66	11.54
	213/5TC	6.50	7.87	11.54	7.87	3.94	2.17	0.69	7.09	17.68	7.95	5.31	1.47	1.57	2.56	5.91	8.66	11.54
87	182/4TC	7.09	8.82	13.99	9.17	4.41	2.76	0.87	8.34	15.41	10.12	2.68	1.24	2.17	3.39	7.09	11.02	13.39
	213/5TC	7.09	8.82	13.99	9.17	4.41	2.76	0.87	8.34	17.68	10.12	4.94	1.24	2.17	3.39	7.09	11.02	13.39
	254/6TC	7.09	8.82	13.99	9.17	4.41	2.76	0.87	8.34	21.24	10.12	5.93	1.24	2.17	3.39	7.09	11.02	13.39
97	213/5TC	9.45	11.42	16.42	11.61	5.71	2.95	1.02	10.43	21.83	10.91	4.63	1.82	2.95	2.99	9.45	12.20	16.42
	254/6TC	9.45	11.42	16.42	11.61	5.71	2.95	1.02	10.43	22.81	10.91	5.61	1.82	2.95	2.99	9.45	12.20	16.42
	284/6TC	9.45	11.42	16.42	11.61	5.71	2.95	1.02	10.43	23.17	10.91	5.96	1.82	2.95	2.99	9.45	12.20	16.42

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

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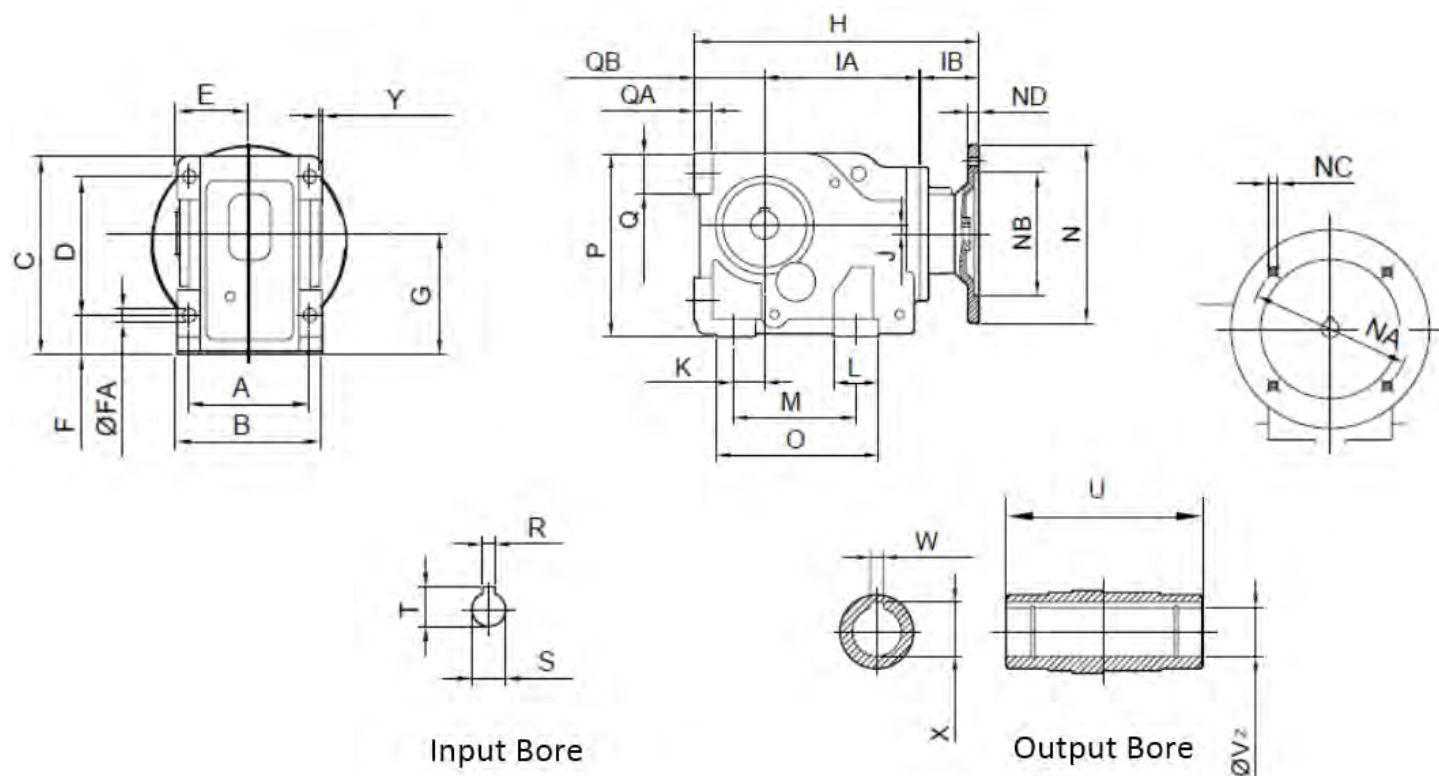
KHN Series - Helical Bevel Reducers: Dimensions (cont.)



All listed dimensions in inches																		
Box Size	NEMA Frame	Q	QA	QB	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE
					N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z
37	56C	1.42	0.63	2.48	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	4.72	1.250	0.25	1.37	0.08	+ .0010 / -0.0
	143/5TC	1.42	0.63	2.48	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.97	4.72	1.250	0.25	1.37	0.08	+ .0010 / -0.0
47	56C	1.34	0.71	2.80	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	5.90	1.375	0.31	1.52	0.10	+ .0010 / -0.0
	143/5TC	1.34	0.71	2.80	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.97	5.90	1.375	0.31	1.52	0.10	+ .0010 / -0.0
	182/4TC	1.34	0.71	2.80	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	5.90	1.375	0.31	1.52	0.10	+ .0010 / -0.0
67	56C	2.13	0.94	3.54	6.50	5.875	4.50	4 x 0.41	0.39	0.188	0.625	0.71	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	143/5TC	2.13	0.94	3.54	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.96	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
	182/4TC	2.13	0.94	3.54	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0
77	143/5TC	2.36	1.06	4.41	6.50	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.96	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	182/4TC	2.36	1.06	4.41	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
	213/5TC	2.36	1.06	4.41	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0
87	182/4TC	3.46	1.26	5.20	9.00	7.250	8.50	4 x 0.55	0.67	0.250	1.125	1.24	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	213/5TC	3.46	1.26	5.20	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
	254/6TC	3.46	1.26	5.20	10.00	7.250	8.50	4 x 0.55	0.79	0.375	1.625	1.80	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0
97	213/5TC	3.39	1.42	6.30	9.00	7.250	8.50	4 x 0.55	0.67	0.312	1.375	1.52	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	254/6TC	3.39	1.42	6.30	10.00	7.250	8.50	4 x 0.55	0.79	0.375	1.625	1.80	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0
	284/6TC	3.39	1.42	6.30	11.26	9.000	10.50	4 x 0.59	0.79	0.500	1.875	2.10	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

KHN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive

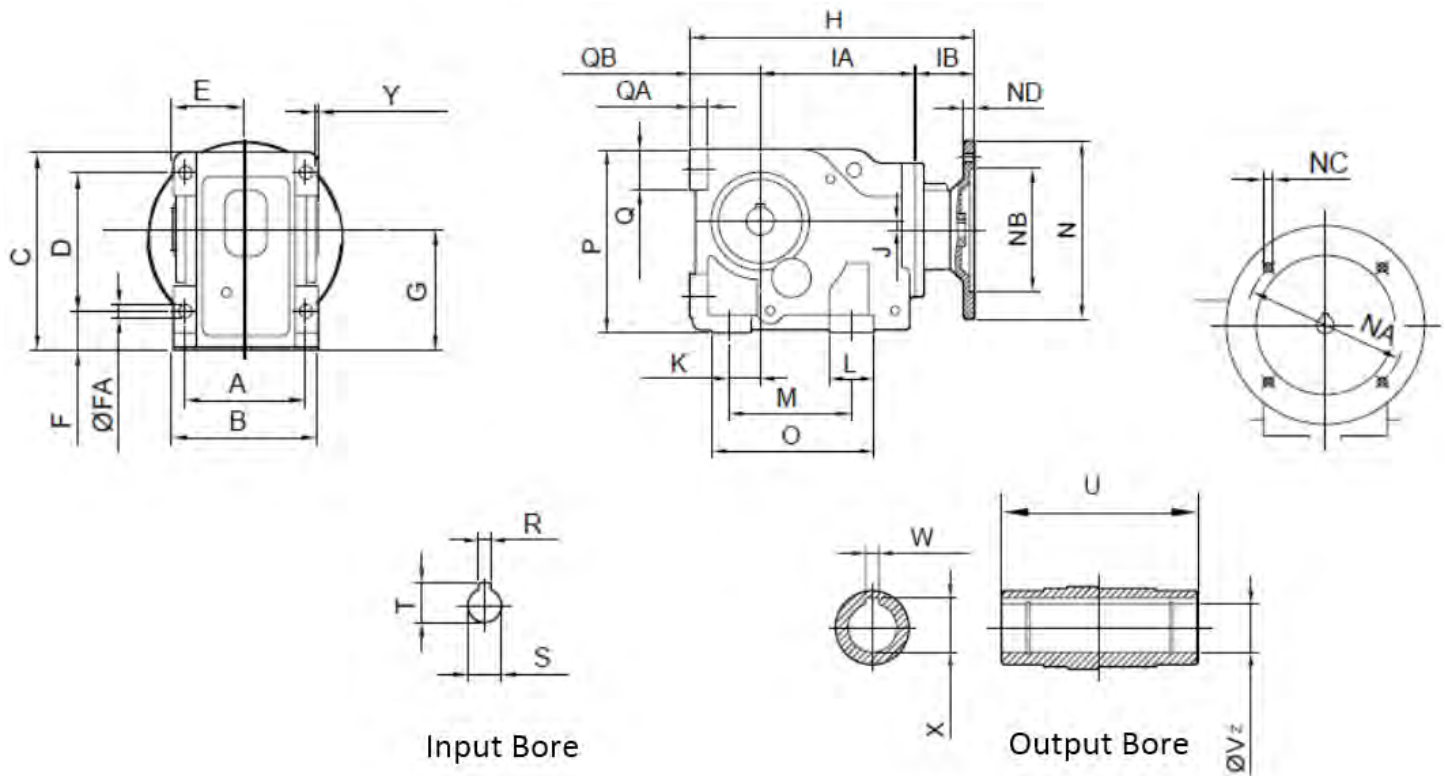


All listed dimensions in inches																		
Box Size	NEMA Frame	A	B	C	D	E	F	FA	G	H	IA	IB	J	K	L	M	O	P
37	56C	3.94	4.72	6.50	4.53	2.36	1.26	0.43	3.94	11.63	5.47	3.68	0.33	1.10	1.50	4.33	5.63	6.50
	143/5TC	3.94	4.72	6.50	4.53	2.36	1.26	0.43	3.94	12.56	5.47	4.61	0.33	1.10	1.50	4.33	5.63	6.50
47	56C	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	12.77	6.54	3.43	0.28	1.38	1.26	5.12	6.38	7.28
	143/5TC	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	13.69	6.54	4.35	0.28	1.38	1.26	5.12	6.38	7.28
	182/4TC	4.72	5.71	7.28	5.12	2.83	1.46	0.43	4.41	15.15	6.54	5.81	0.28	1.38	1.26	5.12	6.38	7.28
67	56C	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	14.02	7.05	3.43	0.79	1.18	1.77	4.72	6.69	8.98
	143/5TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	14.94	7.05	4.35	0.79	1.18	1.77	4.72	6.69	8.98
	182/4TC	5.51	6.69	8.98	6.30	3.41	1.77	0.53	5.51	16.40	7.05	5.81	0.79	1.18	1.77	4.72	6.69	8.98
77	143/5TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	16.43	7.95	4.07	1.23	1.57	2.17	5.91	8.19	11.34
	182/4TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	17.85	7.95	5.49	1.23	1.57	2.17	5.91	8.19	11.34
	213/5TC	6.50	7.87	11.34	7.87	3.98	2.17	0.69	7.09	19.78	7.95	7.42	1.23	1.57	2.17	5.91	8.19	11.34
	182/4TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	20.62	10.12	5.30	1.02	2.17	2.95	7.09	10.24	13.39
87	213/5TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	22.54	10.12	7.22	1.02	2.17	2.95	7.09	10.24	13.39
	254/6TC	7.09	9.06	13.39	9.17	4.57	2.76	0.87	8.35	24.53	10.12	9.21	1.02	2.17	2.95	7.09	10.24	13.39
	213/5TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	24.24	10.91	7.03	1.27	2.95	2.36	9.45	11.57	16.42
97	254/6TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	26.23	10.91	9.02	1.27	2.95	2.36	9.45	11.57	16.42
	284/6TC	9.45	11.41	16.42	11.61	5.75	2.95	1.02	10.43	26.50	10.91	9.29	1.27	2.95	2.36	9.45	11.57	16.42

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

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KHN Series - Helical Bevel Reducers: Competitor Dimensional Comparison - SEW Eurodrive (cont.)



All listed dimensions in inches																			
Box Size	NEMA Frame	Q	QA	QB	FLANGE (inches)					INPUT BORE (inches)			OUTPUT BORE (inches)					BORE TOLERANCE	
					N	NA	NB	NC	ND	R	S	T	U	V	W	X	Y	Z	
37	56C	1.42	0.63	2.48	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	4.72	1.250	0.25	1.37	0.10	+ .0010 / -0.0	
	143/5TC	1.42	0.63	2.48	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	4.72	1.250	0.25	1.37	0.10	+ .0010 / -0.0	
47	56C	1.34	0.71	2.80	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0	
	143/5TC	1.34	0.71	2.80	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0	
	182/4TC	1.34	0.71	2.80	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	5.90	1.375	0.31	1.52	0.12	+ .0010 / -0.0	
67	56C	2.13	0.94	3.54	6.69	5.875	4.50	4 x 0.41	0.43	0.188	0.625	0.71	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0	
	143/5TC	2.13	0.94	3.54	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0	
	182/4TC	2.13	0.94	3.54	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	7.08	1.500	0.38	1.67	0.14	+ .0010 / -0.0	
	143/5TC	2.36	1.06	4.41	6.69	5.875	4.50	4 x 0.41	0.47	0.188	0.875	0.98	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0	
77	182/4TC	2.36	1.06	4.41	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0	
	213/5TC	2.36	1.06	4.41	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	8.26	2.000	0.50	2.22	0.16	+ .0011 / -0.0	
	182/4TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.59	0.250	1.125	1.24	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0	
87	213/5TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0	
	254/6TC	3.46	1.26	5.20	8.98	7.250	8.50	4 x 0.59	0.67	0.375	1.625	1.80	9.44	2.375	0.63	2.65	0.16	+ .0011 / -0.0	
	213/5TC	3.39	1.42	6.30	8.98	7.250	8.50	4 x 0.59	0.63	0.312	1.375	1.52	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0	
97	254/6TC	3.39	1.42	6.30	8.98	7.250	8.50	4 x 0.59	0.67	0.375	1.625	1.80	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0	
	284/6TC	3.39	1.42	6.30	11.26	9.000	10.50	4 x 0.59	0.79	0.500	1.875	2.10	11.82	2.750	0.63	3.03	0.16	+ .0011 / -0.0	

SEW Eurodrive dimensional data was derived from their Catalog 9PD0016/0300.
Blue shaded cells indicate a dimensional difference. All dimensions are in inches.

KHN Series - Helical Bevel Reducers: Accessories

Single Output Shafts

Used for mounting into WorldWide Electric K Series hollow bore reducers for the purpose of turning a hollow bore output unit to a shaft output unit. KHN shaft kits are compatible with the KAN series except when the KAN reducer features a B5 flange. Kit includes single output shaft, key, endplate and bolt.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1.00	6.852	KHN37-OPS-S	\$38.72
47	1.25	8.423	KHN47-OPS-S	\$54.20
67	1.50	10.433	KHN67-OPS-S	\$116.15
77	2.00	12.444	KHN77-OPS-S	\$151.55
87	2.375	14.405	KHN87-OPS-S	\$232.30
97	2.75	17.597	KHN97-OPS-S	\$357.30

Double Output Shafts

KHN shaft kits are for mounting into WorldWide Electric KHN Series hollow bore reducers for the purpose of turning a hollow bore output unit to a shaft output unit. KHN shaft kits are compatible with the KAN series except when the KAN reducer features a B5 flange. Kit includes double output shaft, key, retaining ring and C-clips.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1.00	9.137	KHN37-OPS-DS	\$75.22
47	1.25	11.098	KHN47-OPS-DS	\$109.51
67	1.50	13.938	KHN67-OPS-DS	\$235.62
77	2.00	16.778	KHN77-OPS-DS	\$305.31
87	2.375	19.519	KHN87-OPS-DS	\$466.81
97	2.75	23.54	KHN97-OPS-DS	\$725.66

Single Output Shaft with B5 Flange

The B5 Single Output Shaft with a B5 Flange is compatible with the KAN Series reducer. Kit includes single output shaft, key, endplate, and bolt.



Box Size	Shaft Diameter (Inches)	Shaft Length (Inches)	Model Number	List Price
37	1.00	7.559	KAN37-OPS-S-B5	\$34.33
47	1.25	9.137	KAN47-OPS-S-B5	\$47.81
67	1.50	11.063	KAN67-OPS-S-B5	\$103.43
77	2.00	13.583	KAN77-OPS-S-B5	\$143.85
87	2.375	15.275	KAN87-OPS-S-B5	\$206.44
97	2.75	18.898	KAN97-OPS-S-B5	\$317.69

B5 Output Flange

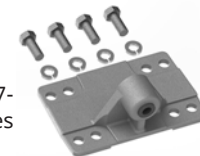
The B5 Output Flange is compatible with the KAN Series reducer. Kit includes B5 output flange and mounting bolts.



Box Size	Model Number	List Price
37	KAN37-OPF-B5	\$87.45
47	KAN47-OPF-B5	\$90.75
67	KAN67-OPF-B5	\$90.75
77	KAN77-OPF-B5	\$133.62
87	KAN87-OPF-B5	\$206.93
97	KAN97-OPF-B5	\$308.70

KAN Series Torque Arm

The KAN Series Torque Arm is available for box sizes 37-97 and is sold separately from the gearbox. Kit includes torque arm, mounting bolts, and lock washers.



Box Size	Model Number	List Price
37	KAN37-TA	\$44.85
47	KAN47-TA	\$63.32
67	KAN67-TA	\$131.91
77	KAN77-TA	\$158.30
87	KAN87-TA	\$211.06
97	KAN97-TA	\$263.83

How To Read A.G.M.A. Service Factors Table

- » The ratings for gear drives in this manual are based on a service factor of 1.00, for uniform load and uniform power source, up to 10 hours of operation per day. For other operating conditions, the application horsepower or torque must be multiplied by the appropriate service factor, to determine the equivalent gear drive power rating. A gear drive should be selected with a rated capacity equal to or greater than the equivalent rating. A condensed service factor chart is located in the selection information pages for each type of gear drive or reducer.
- » A.G.M.A. Service Factors for Worm and Helical Worm Reducers are listed on pages 68-69.
- » Table 1 indicates the relationship between service factors and load classification numbers.

- » A.G.M.A. service factors are based on a uniform power source. If other power sources are used, the service factors must be converted using Table 2. Determine the required service factor with uniform power source. Locate that service factor in the first column and read straight across to obtain required service factor with multi-cylinder or single cylinder engines.
- » Service factors do not need to be used with thermal ratings.
- » Service Factor charts are for general guidelines in determining required service factors. Past experience may indicate that different service factors are required. Consult the factory for unusual or severe applications, or when there are any safety considerations.

Table 1 - Load Classification Numbers

Load Class (S.F.)	Up to 3 Hours Total Operation Per Day	3 to 10 Hours Total Operation Per Day	Over 10 Hours Total Operation Per Day
I (1.0)	Moderate Shock Load	Uniform Load	---
II (1.4)	Heavy Shock Load	Moderate Shock Load	Uniform Load
III (2.0)	---	Heavy Shock Load	Moderate Shock Load

Table 2 - Service Factor Conversion Based on Type of Power Source

Steam or Gas Turbine Hydraulic or Electric Motor	Multi-Cylinder Engine	Single Cylinder Engine
1.00	1.25	1.50
1.25	1.50	1.75
1.50	1.75	2.00
1.75	2.00	2.25
2.00	2.25	2.50
2.50	2.75	3.00
3.00	3.25	3.50

A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Agitators (mixers)				Cranes				Extruders			
Pure liquids	---	1.00	1.25	Dry dock				General	1.25	1.25	1.25
Liquids and solids	1.00	1.25	1.50	Main hoist	1.25	1.50	1.75	Plastics			
Liquids-variable density	1.00	1.25	1.50	Auxiliary hoist	1.25	1.50	1.75	Variable speed drive	1.50	1.50	1.50
Blowers				Boom hoist	1.25	1.50	1.75	Fixed speed drive	1.75	1.75	1.75
Centrifugal	---	1.00	1.25	Slewing drive	1.25	1.50	1.75	Rubber			
Lobe	1.00	1.25	1.50	Traction drive	1.50	1.50	1.50	Continuous screw operation	1.50	1.50	1.50
Vane	---	1.00	1.25	Container				Intermittent screw operation	1.75	1.75	1.75
Brewing and distilling				Main hoist	---	---	---	Fans			
Bottling machinery	---	1.00	1.25	Boom hoist	---	---	---	Centrifugal	---	1.00	1.25
Brew kettles-continuous duty	---	1.00	1.25	Trolley drive, Gantry drive	---	---	---	Cooling towers	---	---	---
Cookers-continuous duty	---	1.00	1.25	Trolley drive, Traction drive	---	---	---	Forced draft	1.25	1.25	1.25
Mash tubs-continuous duty	---	1.00	1.25	Mill duty				Induced draft	1.00	1.25	1.50
Scale hopper-frequent starts	1.00	1.25	1.50	Main hoist	---	---	---	Industrial and mine	1.00	1.25	1.50
Can filling machines	---	1.00	1.25	Auxiliary	---	---	---	Feeders			
Car dumpers	1.25	1.50	1.75	Bridge	---	---	---	Apron	---	1.25	1.50
Car pullers	1.00	1.25	1.50	Trolley travel	---	---	---	Belt	1.00	1.25	1.50
Clarifiers	---	1.00	1.25	Industrial duty				Disc	---	1.00	1.25
Classifiers	1.00	1.25	1.50	Main	---	---	---	Reciprocating	1.25	1.50	1.75
Clay working machinery				Auxiliary	---	---	---	Screw	1.00	1.25	1.50
Brick press	1.25	1.50	1.75	Bridge	---	---	---	Food industry			
Briquette machine	1.25	1.50	1.75	Trolley travel	---	---	---	Cereal cooker	---	1.00	1.25
Pug mill	1.00	1.25	1.50	Crushers				Dough mixer	1.00	1.25	1.50
Compactors	1.50	1.75	2.00	Stone or ore	1.50	1.75	2.00	Meat grinders	1.00	1.25	1.50
Compressors				Dredges				Slicers	1.00	1.25	1.50
Centrifugal	---	1.00	1.25	Cable reels	1.00	1.25	1.50	Generators and exciters	---	1.00	1.25
Lobe	1.00	1.25	1.50	Conveyors	1.00	1.25	1.50	Hammer mills	1.50	1.50	1.75
Reciprocating, multi-cylinder	1.00	1.25	1.50	Cutter head drives	1.25	1.50	1.75	Hoists			
Reciprocating, single-cylinder	1.25	1.50	1.75	Pumps	1.00	1.25	1.50	Heavy duty	1.25	1.50	1.75
Conveyors-general purpose				Screen drives	1.25	1.50	1.75	Medium duty	1.00	1.25	1.50
Uniformly loaded or fed	---	1.00	1.25	Stackers	1.00	1.25	1.50	Skip hoist	1.00	1.25	1.50
Not uniformly fed	1.00	1.25	1.50	Winches	1.00	1.25	1.50	Laundry			
Reciprocating or shaker	1.25	1.50	1.75	Elevators				Tumblers	1.00	1.25	1.50
				Bucket	1.00	1.25	1.50	Washers	1.25	1.25	1.50
				Centrifugal discharge	---	1.00	1.25				
				Escalators	---	---	---				
				Freight	---	---	---				
				Gravity discharge	---	1.00	1.25				

A.G.M.A. Service Factors: Worm Gear Reducers & Gearmotors (cont.)

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Lumber industry				Paper mills				Pumps			
Barkers-spindle feed	1.25	1.25	1.50	Agitator (mixer)	1.50	1.50	1.50	Centrifugal	---	1.00	1.25
Main drive	1.50	1.50	1.50	Agitator for pure liquors	1.25	1.25	1.25	Proportioning	1.00	1.25	1.50
Conveyors-burner	1.25	1.25	1.50	Barking drums	1.75	1.75	1.75	Reciprocating	1.00	1.25	1.50
Main or heavy duty	1.50	1.50	1.50	Barkers - mechanical	1.75	1.75	1.75	Single acting, 3 or more	1.00	1.25	1.50
Main log	1.50	1.50	1.75	Beater	1.50	1.50	1.50	cylinders	1.00	1.25	1.50
Re-saw, merry-go-round	1.25	1.25	1.50	Breaker stack	1.25	1.25	1.25	Double acting, 2 or more	1.00	1.25	1.50
Conveyors				Calendar 2)	1.25	1.25	1.25	cylinders	---	1.00	1.50
Slab	1.50	1.50	1.75	Chipper	1.75	1.75	1.75	Rotary	---	1.00	1.50
Transfer	1.25	1.25	1.50	Chip feeder	1.50	1.50	1.50	Gear type	---	1.00	1.25
Chains				Coating rolls	1.25	1.25	1.25	Lobe	---	1.00	1.25
Floor	1.50	1.50	1.50	Conveyors				Vane			
Green	1.50	1.50	1.50	Chip, bark, chemical	1.25	1.25	1.25	Rubber industry			
Cut-off saws				Log (including slab)	1.75	1.75	1.75	Intensive internal mixers			
Chain	1.50	1.50	1.50	Couch rolls	1.25	1.25	1.25	Batch mixers	1.50	1.70	1.75
Drag	1.50	1.50	1.50	Cutter	1.75	1.75	1.75	Continuous mixers	1.25	1.50	1.50
Debarking drums	1.50	1.50	1.75	Cylinder molds	1.25	1.25	1.25	Mixing mill - 2 smooth rolls (if			
Feeds				Dryers 2)				corrugated rolls are used, then			
Edger	1.25	1.25	1.50	Paper machine	1.25	1.25	1.25	use the same service factors			
Gang	1.50	1.50	1.50	Conveyor type	1.25	1.25	1.25	that are used for a cracker warmer)	1.50	1.50	1.50
Trimmer	1.25	1.25	1.50	Embosses	1.25	1.25	1.25	Batch drop mill - 2 smooth rolls	1.50	1.50	1.50
Log deck	1.50	1.50	1.50	Extruder	1.50	1.50	1.50	Cracker warmer-2 rolls; 1 corrugated roll	1.75	1.75	1.75
Log hauls-incline-well type	1.50	1.50	1.50	Fourdrinier rolls	1.25	1.25	1.25	Cracker - 2 corrugated rolls	1.75	1.75	1.75
Log turning devices	1.50	1.50	1.50	(includes lump breaker, dandy				Holding, feed & blend mill - 2 rolls	1.25	1.25	1.25
Planer feed	1.25	1.25	1.50	roll, wire turning, and return rolls)				Refiner - 2 rolls	1.50	1.50	1.50
Planer tilting hoists	1.50	1.50	1.50	Jordan	1.25	1.25	1.25	Calenders	1.50	1.50	1.50
Rolls-live-off bearing-roll cases	1.50	1.50	1.50	Kiln drive	1.50	1.50	1.50	Sand muller	1.00	1.25	1.50
Sorting table	1.25	1.50	1.50	Mt. Hope roll	1.25	1.25	1.25	Sewage disposal equipment			
Tipple hoist	1.25	1.25	1.50	Paper rolls	1.25	1.25	1.25	Bar screens	---	1.00	1.25
Transfers				Platter	1.50	1.50	1.50	Chemical feeders	1.00	1.00	1.25
Chain	1.50	1.50	1.50	Presses - felt & suction	1.25	1.25	1.25	Dewatering screens	1.00	1.25	1.50
Craneway	1.50	1.50	1.50	Pulper	1.50	1.50	1.75	Scum breakers	1.00	1.25	1.50
Tray drives	1.25	1.25	1.50	Pumps - vacuum	1.50	1.50	1.50	Slow or rapid mixers	1.00	1.25	1.50
Veneer lathe drives	---	---	---	Reel (surface type)	1.25	1.25	1.50	Sludge collectors	1.00	1.00	1.25
Metal mills				Screens				Thickeners	1.00	1.25	1.50
Draw bench carriage and main drive	1.00	1.25	1.50	Chip	1.50	1.50	1.50	Vacuum filters	1.00	1.25	1.50
Runout table				Rotary	1.50	1.50	1.50	Screens			
Non-reversing, Group drives	1.00	1.25	1.50	Vibrating	1.75	1.75	1.75	Air washing	---	1.00	1.25
Non-reversing, Individual drives	1.50	1.50	1.75	Size press	1.25	1.25	1.25	Rotary - stone or gravel	1.00	1.25	1.50
Reversing	1.50	1.50	1.75	Super calender 3)	1.25	1.25	1.25	Traveling water intake	---	1.00	1.25
Slab pushers	1.25	1.25	1.50	Thickener (AC motor)	1.50	1.50	1.50	Sugar industry			
Shears	1.50	1.50	1.75	(DC motor)	1.25	1.25	1.25	Beet slicer	1.50	1.50	1.75
Wire drawing	1.00	1.25	1.50	Washer (AC motor)	1.50	1.50	1.50	Cane knives	1.50	1.50	1.50
Wire winding machine	1.00	1.25	1.50	(DC motor)	1.25	1.25	1.25	Crushers	1.50	1.50	1.50
Metal strip processing machinery				Wind and unwind stand	1.00	1.00	1.00	Mills (low speed end)	1.50	1.50	1.50
Bridles	1.25	1.25	1.50	Winders (surface type)	1.25	1.25	1.25	Textile industry			
Coilers and uncoilers	1.00	1.00	1.25	Yankee dryers 2)	1.25	1.25	1.25	Batchers	1.00	1.25	1.50
Edge trimmers	1.00	1.25	1.50	Plastic industry				Calenders	1.00	1.25	1.50
Flatteners	1.25	1.25	1.50	Primary processing				Cards	1.00	1.25	1.50
Loopers (accumulators)	1.00	1.00	1.00	Intensive internal mixers				Dry cans	1.00	1.25	1.50
Pinch rolls	1.25	1.25	1.50	Batch mixers	1.75	1.75	1.75	Dryers	1.00	1.25	1.50
Scrap choppers	1.00	1.25	1.50	Continuous mixers	1.50	1.50	1.50	Dyeing machinery	1.00	1.25	1.50
Shears	1.50	1.50	1.75	Batch drop mill - 2 smooth rolls	1.25	1.25	1.25	Looms	1.00	1.25	1.50
Slitters	1.00	1.25	1.50	Continuous feed, holding, blend mill	1.25	1.25	1.25	Mangles	1.00	1.25	1.50
Mills, rotary type				Compounding mill	1.25	1.25	1.25	Nappers	1.00	1.25	1.50
Ball & rod				Calenders	1.50	1.50	1.50	Pads	1.00	1.25	1.50
Spur ring gear	1.50	1.50	1.75	Secondary processing				Slashers	1.00	1.25	1.50
Helical ring gear	1.50	1.50	1.50	Blow molders	1.50	1.50	1.50	Soapers	1.00	1.25	1.50
Direct connected	1.50	1.50	1.75	Coating	1.25	1.25	1.25	Spinners	1.00	1.25	1.50
Cement kilns	1.50	1.50	1.50	Film	1.25	1.25	1.25	Tenter frames	1.00	1.25	1.50
Dryers & coolers	1.50	1.50	1.50	Pipe	1.25	1.25	1.25	Washers	1.00	1.25	1.50
Mixers				Pre-plasticizers	1.50	1.50	1.50	Winders	1.00	1.25	1.50
Concrete	1.00	1.25	1.50	Rods	1.25	1.25	1.25				
				Sheet	1.25	1.25	1.25				
				Tubing	1.25	1.25	1.50				
				Pullers - barge haul	1.00	1.50	1.75				

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A.G.M.A. SERVICE FACTOR
AND LOAD CLASS INFO.

A.G.M.A. Load Classifications for Shaft Mount Reducers

Application	Total Operation			Application	Total Operation			Application	Total Operation		
	< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day		< 3 Hrs. Per Day	3-10 Hrs. Per Day	> 10 Hrs. Per Day
Agitators (mixers)	I	I	II	Laundry	II	II	II	Paper mills (Continued)			
Pure liquids	I	II	II	Tumblers	II	II	III	Screens			
Liquids and solids	I	II	II	Washers	II	II	III	Chip	II	II	II
Liquids-variable density	I	II	II	Lumber industry				Rotary	II	II	II
Blowers				Barkers-spindle feed	II	II	II	Vibrating	III	III	III
Centrifugal	I	I	II	Main drive	III	III	III	Size press	II	II	II
Lobe	I	II	II	Conveyors-burner	II	II	II	Super calender (3)	II	II	II
Vane	I	II	II	Main or heavy duty	II	II	II	Thickener (AC motor)	II	II	II
Brewing and distilling				Main log	III	III	III	(DC motor)	II	II	II
Bottling machinery	I	I	II	Re-saw, merry-go-round	II	II	II	Washer (AC motor)	II	II	II
Brew kettles-continuous duty	II	II	II	Conveyors				(DC motor)	II	II	II
Cookers-continuous duty	II	II	II	Slab	III	III	III	Wind and unwind stand	I	I	I
Mash tubs-continuous duty	II	II	II	Transfer	II	II	II	Winders (surface type)	II	II	II
Scale hopper-frequent starts	II	II	II	Chains				Yankee dryers (2)	II	II	II
Can filling machines	I	I	II	Floor	II	II	II	Plastic industry			
Car dumpers	I	III	III	Green	II	II	III	Primary processing			
Car pullers	I	II	II	Cut-off saws				Intensive internal mixers			
Clarifiers	I	I	II	Chain	II	II	III	Batch mixers	III	III	III
Classifiers	I	II	II	Drag	II	II	III	Continuous mixers	II	II	II
Clay working machinery				Debarking drums	III	III	III	Batch drop mill - 2 smooth rolls	II	II	II
Brick press	II	III	III	Feeds				Continuous feed, holding, blend mill	II	II	II
Briquette machine	II	III	III	Edger	II	II	II	Calenders	II	II	II
Pug mill	I	II	II	Gang	III	III	III	Secondary processing			
Compactors	III	III	III	Trimmer	II	II	II	Blow molders	II	II	II
Compressors				Log deck	III	III	III	Coating	II	II	II
Centrifugal	I	I	II	Log hauls-incline-well type	III	III	III	Film	II	II	II
Lobe	I	II	II	Log turning devices	III	III	III	Pipe	II	II	II
Reciprocating, multi-cylinder	II	II	III	Planer feed	II	II	II	Pre-plasticizers	II	II	II
Reciprocating, single-cylinder	III	III	III	Planer tilting hoists	II	II	II	Rods	II	II	II
Cranes (1)				Rolls-live-off bearing-roll cases	III	III	III	Sheet	II	II	II
Dry dock	2.50	2.50	2.50	Sorting table	II	II	II	Tubing	II	II	II
Main hoist	2.50	2.50	3.00	Tipple hoist	II	II	II	Pullers - barge haul	II	II	II
Auxiliary hoist	2.50	2.50	3.00	Transfers				Pumps			
Boom hoist	2.50	2.50	3.00	Chain	II	II	III	Centrifugal	I	I	II
Slewing drive	2.50	2.50	3.00	Craneway	II	II	III	Proportioning	II	II	II
Traction drive	3.00	3.00	3.00	Tray drives	II	II	II	Reciprocating			
Container				Veneer lathe drives	II	II	II	Single acting, 3 or more cylinders	II	II	II
Main hoist	3.00	3.00	3.00	Metal mills				Double acting, 2 or more cylinders	II	II	II
Boom hoist	2.00	2.00	2.00	Draw bench carriage and main drive	II	II	II	Rotary			
Trolley drive, Gantry drive	3.00	3.00	3.00	Runout table				Gear type	I	I	II
Trolley drive, Traction drive	2.00	2.00	2.00	Non-reversing, Group drives	II	II	II	Lobe	I	I	II
Mill duty				Non-reversing, Individual drives	III	III	III	Vane	I	I	II
Main hoist	3.50	3.50	3.50	Reversing	II	II	II	Rubber industry			
Auxiliary	3.50	3.50	3.50	Slab pushers	II	II	II	Intensive internal mixers			
Bridge	2.50	3.00	3.00	Shears	III	III	III	Batch mixers	III	III	III
Trolley travel	2.50	3.00	3.00	Wire drawing	II	II	II	Continuous mixers	II	II	II
Industrial duty				Wire winding machine	II	II	II	Mixing mill - 2 smooth rolls	II	II	II
Main	2.50	2.50	3.00	Metal strip processing machinery				Mixing mill - 1 or 2 corrugated rolls	III	III	III
Auxiliary	2.50	2.50	3.00	Bridles	II	I	II	Batch drop mill - 2 smooth rolls	II	II	II
Bridge	2.50	3.00	3.00	Coilers and uncoilers	I	I	II	Cracker warmer - 2 rolls; 1 corrugated roll	III	III	III
Trolley travel	2.50	3.00	3.00	Edge trimmers	I	II	II	Cracker - 2 corrugated rolls	III	III	III
Crushers				Flatteners	I	I	I	Holding, feed & blend mill - 2 rolls	II	II	II
Stone or ore	III	III	III	Loopers (accumulators)	I	I	I	Refiner - 2 rolls	II	II	II
Dredges				Pinch rolls	II	II	II	Calenders	II	II	II
Cable reels	II	II	II	Scrap choppers	II	II	II	Sand miller	II	II	II
Conveyors	II	II	II	Shears	III	III	III	Sewage disposal equipment			
Cutter head drives	III	III	III	Slitters	I	II	II	Bar screens	II	II	II
Pumps	III	III	III	Mills, rotary type				Chemical feeders	II	II	II
Screen drives	III	III	III	Ball & rod				Dewatering screens	II	II	II
Stackers	II	II	II	Spur ring gear	III	III	III	Scum breakers	II	II	II
Winches	II	II	II	Helical ring gear	II	II	II	Slow or rapid mixers	II	II	II
Elevators				Direct connected	III	III	III	Sludge collectors	II	II	II
Bucket	I	II	II	Cement kilns	II	II	II	Thickeners	II	II	II
Centrifugal discharge	I	I	II	Dryers & coolers	II	II	II	Vacuum filters	II	II	II
Escalators	I	I	II	Mixers				Screens			
Freight	I	I	II	Concrete	II	II	II	Air washing	I	I	II
Gravity discharge	I	I	II	Paper mills				Rotary - stone or gravel	II	II	II
Extruders				Agitator (mixer)				Traveling water intake	I	I	I
General	II	II	II	Agitator for pure liquors	II	II	II	Screw conveyors			
Plastics	III	III	III	Barking drums	II	II	II	Uniformly loaded or fed	I	I	II
Variable speed drive	III	III	III	Barkers - mechanical	III	III	III	Heavy duty	I	II	II
Fixed speed drive	III	III	III	Beater	II	II	II	Sugar industry			
Rubber				Breaker stack	II	II	II	Beet slicer	III	III	III
Continuous screw operation	III	III	III	Calendar (2)	II	II	II	Cane knives	II	II	II
Intermittent screw operation	III	III	III	Chipper	III	III	III	Crushers	II	II	II
Fans				Chip feeder	II	II	II	Mills (low speed end)	III	III	III
Centrifugal	I	I	II	Coating rolls	II	II	II	Textile industry			
Cooling towers	III	III	III	Conveyors				Batchers	II	II	II
Forced draft	II	II	II	Chip, bark, chemical	II	II	II	Calenders	II	II	II
Induced draft	II	II	II	Log (including slab)	II	III	III	Cards	II	II	II
Industrial and mine	II	II	II	Couch rolls	II	II	II	Dry cans	II	II	II
Feeders				Cutter	III	III	III	Dryers	II	II	II
Apron	I	II	II	Cylinder molds	II	II	II	Dyeing machinery	II	II	II
Belt	I	II	II	Dryers (2)	II	II	II	Looms	II	II	II
Disc	I	I	II	Paper machine	II	II	II	Mangles	II	II	II
Reciprocating	II	III	III	Conveyor type	II	II	II	Nappers	II	II	II
Screw	I	II	II	Embosses	II	II	II	Pads	II	II	II
Food industry				Extruder	II	II	II	Slashers	II	II	II
Cereal cooker	I	I	II	Fourdrinier rolls	II	II	II	Soapers	II	II	II
Dough mixer	II	II	II	(includes lump breaker, dandy roll, wire turning, and return rolls)				Spinners	II	II	II
Meat grinders	II	II	II	Jordan	II	II	II	Tenter frames	II	II	II
Slicers	I	II	II	Kiln drive	II	II	II	Washers	II	II	II
Generators and exciters	II	II	II	Mt. Hope roll	II	II	II	Winders	II	II	II
Hammer mills	III	III	III	Paper rolls	II	II	II				
Hoists				Platter	II	II	II				
Heavy duty	III	III	III	Presses - felt & suction	II	II	II				
Medium duty	II	II	II	Pulper	III	III	III				
Skip hoist	II	II	II	Pumps - vacuum	III	III	III				
				Reel (surface type)	II	II	II				

- (1) Crane drives are to be selected based on gear tooth bending strength, using the numeric service factors in this table. Service factor in durability shall be a minimum of 1.00.
- (2) Anti-friction bearings only.
- (3) A class number of I may be applied at base speed of a super calender operating over-speed range or part range constant horsepower, part range constant torque where the constant horsepower speed range is greater than 1.5 to 1. A class number of II is applicable to super calenders operating over the entire speed range at constant torque or where the constant horsepower speed range is less than 1.5 to 1.

Terms and Conditions of Sale

1. **WARRANTY – WORLDWIDE ELECTRIC CORPORATION (“SELLER”)** MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IN RESPECT TO THE PRODUCT AND THERE IS NO WARRANTY EXPRESS OR IMPLIED EXCEPT THAT THE PRODUCT SHALL BE OF THE KIND AND QUALITY DESCRIBED IN THE SPECIFICATIONS.
2. **DELIVERY** – Unless otherwise stated, delivery will be made f.o.b. point of shipment. Shipping dates are approximate and are based on the prompt receipt of all necessary information from the purchaser.
3. **LOSS, DAMAGE OR DELAY** – Seller shall not be liable for loss, damage, detention, or delay resulting from causes beyond its reasonable control or from fire, strike or other concerted action of workmen, act or omission of any Governmental authority or of the Purchaser, insurrection or riot, embargo, car shortage, wreck or delay in transportation, or inability to obtain necessary labor, materials, or manufacturing facilities from usual sources. In the event of delay due to any such cause, the date of delivery will be postponed by such length of time as may be reasonably necessary to compensate for the delay.
4. **RISK OF LOSS** – Risk of loss of the product, or any part of the same, shall pass to the Purchaser upon delivery of such product or part.
5. **PAYMENTS** – If, in the judgment of Seller, the financial condition of the Purchaser at any time prior to shipment does not support the terms of payment specified, Seller may require full or partial payment in advance. Pro-rata payments shall become due as shipments are made. If shipments are delayed by the Purchaser, payments shall become due from date when Seller is prepared to make shipment. If manufacture is delayed by the Purchaser, payment shall be made based on the contract price and percent of completion. Products held for Purchaser shall be at the risk and expense of the Purchaser.
6. **PAYMENT BY CREDIT CARD** – If Seller accepts payment by credit card, Purchaser agrees to pay the issuer of the credit card the total amount shown on this invoice upon presentation of a bill, without offset or deduction.
7. **PRICES** – Prices are those in effect at time of shipment. In the event of a published increase or reduction in prices by Seller, the new price will become effective immediately on the unshipped portion of the order, unless stated at the time of the change. In no case, however, will a reduction in price be retroactive to shipments made prior to the date of the price change. Purchaser’s order will be entered promptly upon acceptance by Seller and will not thereafter be subject to Cancellation nor to Deferment of Deliveries without Seller’s written consent, except upon terms which take into proper account the work already done and commitments made by Seller. Prices include the Seller’s standard packing for domestic shipments.
8. **LIMITATION OF LIABILITY** – In no event shall Seller be liable for any special, indirect, incidental, consequential or punitive damages, including but not limited to damages for lost profits or business opportunities or damage to reputation. Seller’s maximum liability for any breach of contract or sale, or any other claim related to the product sold hereunder, shall be limited to the price of the product, or portion thereof, on which such liability is based.
9. **GOVERNING LAW/JURISDICTION/VENUE** – This sale shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflicts of laws principles, and shall be deemed entered into at Seller’s principal place of business in New York. By purchasing Seller’s product, Purchaser expressly consents, for any litigation arising out of or related to the sale, to the exclusive jurisdiction and venue of the courts of competent jurisdiction located in Monroe County, New York (i.e., the U.S. District Court, Western District of New York, and the New York State Supreme Court, County of Monroe) and waives the right and hereby agrees not to assert, by way of motion, defense or otherwise in any proceeding brought in either of such courts, any claim that it is not subject to the personal jurisdiction of such court, that such proceeding is brought in an inconvenient forum, or that the venue of such proceeding is improper.
10. **TERMINATION** – Any order or contract may be terminated by the Purchaser only upon payment of reasonable charges based upon expenses already incurred and commitments made by Seller.
11. **RETURN OF GOODS** – No product or part shall be returned to the Seller without written authorization and shipping instructions first having been obtained from the Seller. Returns may be subject to freight charge and/or restocking charge, as circumstances dictate.
12. **REPAIR POLICY** – Positively no allowance will be made for repairs if made by others without Seller’s written consent.
13. **NO ASSIGNMENT** – Purchaser’s obligations are not transferable or assignable by operation of law, change of control or ownership, or otherwise, without prior written consent of Seller.

Return Policy

1. All WorldWide Electric products (electric motors, motor controls and gearing products) that are purchased as normal stock items may be returned, with freight to be paid, back to the closest WorldWide Electric warehouse by the customer.
2. Any returned products must be new, undamaged and in original cartons/packaging. Final credit will not be issued until WorldWide Electric has verified the products/shipping cartons as such.
3. All RGA requests must be made within 90 days of original purchase.
4. If the returned products were ordered incorrectly by the customer, 20% will be levied as a restocking charge which carries a minimum \$75 charge.
5. If the customer places an order equal to or greater than the goods being returned, then the restocking charge will be 10% (minimum \$75 charge).
6. If the product being returned was originally shipped to the customer prepaid and allowed, the original freight charge will be deducted from the return credit.
7. If the returned products are not in original condition (as well as the packaging), there will be additional fees applied to repair and/or replace those parts/products.

Freight Terms

Freight terms are as follows on all orders shipped from any of our warehouses. All products can be assorted from all three divisions; motors, controls and gearing.

FedEx / UPS will be utilized for shipments under 100 lbs. and billed on a prepaid and add basis (excluding cast iron motors and gear reducer products). Customers may always choose to have their shipment sent freight collect.

\$5,000 +	Truck - Prepaid and Allowed
\$1,000 - \$4,999	Truck - 10% of Invoice - Prepaid and Add
\$0 - \$999	Truck - \$100 Minimum - Prepaid and Add

Special Freight Prepaid Programs

Worm Gear Reducers: 25 + Pieces Assorted, Prepaid and Allowed

Orders may be picked up from any of our warehouses as a will call. We would prefer a one-hour advance notification for orders to be picked up. However, allowances will be made for special rush and urgent situations. Freight terms are as follows on all orders shipped from any of our warehouses.

Additional Freight Services

Delivery Appointment	\$65.00
Liftgate Delivery	\$200.00
Residential Delivery	\$125.00
Expedited Delivery	Please Call For Quote



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[‡]While most products are in stock in one of our distribution centers, certain conditions may lead to temporary stock shortages.