

**LATEST
TECHNOLOGY**

MOTORS AND SOFT STARTERS

Industrial Refrigeration

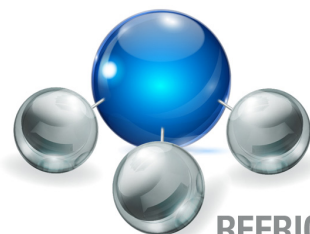
Motors

Automation

Energy

Transmission and
Distribution

Coatings



WEG
REFRIGERATION
OPTIMAL MATCH



Driving efficiency and sustainability



Three-Phase General Purpose Motors

Definite Purpose Motors

REFRIGERATION MOTORS

W40 Refrigeration 'RF'- ODP Cast Iron

WEG Open Drip Proof (ODP) motor is a general purpose line designed for environments where dirt and moisture are minimal. The ODP cast iron frame is designed to provide maximum ventilation and heat dissipation, offering low vibration levels, high mechanical stiffness and durability.

The W40 Refrigeration 'RF' motor includes the features commonly required for industrial refrigeration compressor applications. Optimized solutions for use on soft start or VFD control.



Standard Features

- High Grade FC200 Cast Iron frame for added strength and reduced vibration
- Open Drip Proof with IP23 Degree of Protection
- Class F insulation (Impregnation Resin and Magnet wire are class H)
- F1 Mounted (F2 Convertible)
- Stainless Steel Nameplate - Laser etched with high contrast background
- Regreasable ball bearings

Optional Features for Operation with Variable Frequency Drive

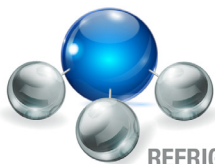
- Insulated NDE Bearing Housing Standard for 447/9TS and 5010/11TS Frames
- RFVFD models come standard with Insulated NDE Bearing Housing and Internal AEGIS Shaft Grounding
- Thermistors and Thermistor Modules available as options

Features that make a difference

- Low Noise Design for quiet operation
- Inverter Duty Insulation system per NEMA MG1, Part 31 – WEG Wise System
- Anti-Condensate Space Heaters (110-127/200-240 V)
- Over-sized diagonal split terminal box
- Premium WEG Chemical Paint system exceeds 200 Hour Salt Spray test
- Winding Thermistor (155C for Shutoff) on 447/9TS Frames
- Side terminal box hole 1/2" NPT for accessory connections

Inverter Rated:
1000:1 for variable torque
2:1 for constant torque
1.15 SF on VFD for all RFVFD models.
Consult WEG for other options.





WEG
REFRIGERATION
OPTIMAL MATCH

www.weg.net



HP	kW	RPM	Frame	Catalog Number	List Price	Mult. Symbol	Approx. Ship Weight (lbs)	Service Factor	FL Amps @ High	FL. Eff (%)	"C" Dimension (in)	Voltage	Notes
75	55	3600	364/5TS	075360T3E364TS-RFW40	\$6,379	N1B	816	1.25	84.8	93.6	27.520	230/460	28;48
100	75	3600	364/5TS	100360T3G365TS-RFW40	\$7,308	N1B	840	1.25	116	93.6	27.520	460	28;48
125	90	3600	404/5TS	125360T3G404TS-RFW40	\$9,709	N1B	972	1.25	136	94.1	31.100	460	28;48
150	110	3600	404/5TS	150360T3G405TS-RFW40	\$12,558	N1B	988	1.25	167	94.1	31.100	460	28;48
200	150	3600	444/5TS	200360T3G444TS-RFW40	\$15,954	N1B	1412	1.15	225	95.0	34.575	460	28;48
250	185	3600	444/5TS	250360T3G445TS-RFW40	\$20,881	N1B	1527	1.15	278	95.0	34.575	460	28;48
300	220	3600	444/5TS	300360T3G445TS-RFW40	\$24,523	N1B	1593	1.15	329	95.4	34.575	460	28;48
350	260	3600	447/9TS	350360T3G449TS-RFW40	\$28,813	N1B	2121	1.15	384	95.4	42.959	460	28;48;43
400	300	3600	447/9TS	400360T3G449TS-RFW40	\$30,680	N1B	2200	1.15	442	95.8	42.959	460	28;48;43
450	330	3600	447/9TS	450360T3G449TS-RFW40	\$32,475	N1B	2315	1.15	478	96.2	42.959	460	28;48;43
500	370	3600	447/9TS	500360T3G449TS-RFW40	\$36,197	N1B	2391	1.15	536	96.2	42.959	460	28;48;43
600	440	3600	447/9TS	600360T3G449TS-RFW40	\$37,943	N1B	2520	1.15	645	96.2	42.959	460	28;48;43
700	515	3600	5010/11TS	700360T3G5010S-RF	\$48,993	N1B	4297	1.15	760	96.6	56.992	460	28;48;43
800	590	3600	5010/11TS	800360T3G5010S-RF	\$51,795	N1B	4239	1.15	881	96.6	56.992	460	28;48;43

HP	kW	RPM	Frame	Catalog Number	List Price	Mult. Symbol	Approx. Shipping Weight (lbs)	Service Factor	FL Amps @ High	FL. Eff (%)	"C" Dimension (in)	Voltage	Notes
75	55	3600	364/5TSC	075360T3E364TSC-RFW4	\$6,812	N1B	852	1.25	84.8	93.6	27.520	230/460	28;48
100	75	3600	364/5TSC	100360T3G365TSC-RFW4	\$7,742	N1B	866	1.25	116	93.6	27.520	460	28;48
125	90	3600	404/5TSC	125360T3G404TSC-RFW4	\$10,199	N1B	998	1.25	136	94.1	31.100	460	28;48
150	110	3600	404/5TSC	150360T3G405TSC-RFW4	\$13,048	N1B	1015	1.25	167	94.1	31.100	460	28;48
200	150	3600	444/5TSC	200360T3G444TSC-RFW4	\$16,570	N1B	1463	1.15	225	95.0	34.575	460	28;48
250	185	3600	444/5TSC	250360T3G445TSC-RFW4	\$21,497	N1B	1574	1.15	278	95.0	34.575	460	28;48
300	220	3600	444/5TSC	300360T3G445TSC-RFW4	\$25,139	N1B	1619	1.15	329	95.4	34.575	460	28;48
350	260	3600	447/9TSC	350360T3G449TSC-RFW4	\$29,637	N1B	2164	1.15	384	95.4	42.959	460	28;48;43

HP	kW	RPM	Frame	Catalog Number	List Price	Mult. Symbol	Approx. Shipping Weight (lbs)	Service Factor	FL Amps @ High	FL. Eff (%)	"C" Dimension (in)	Voltage	Notes
75	55	3600	364/5TS	075360T3E364TS-RFVFD	\$8,509	N1B	774	1.15	87.8	93.6	27.520	230/460	19;28;34;37;43;48
100	75	3600	364/5TS	100360T3G365TS-RFVFD	\$9,438	N1B	990	1.15	121	93.6	27.520	460	19;28;34;37;43;48
125	90	3600	404/5TS	125360T3G404TS-RFVFD	\$11,950	N1B	1215	1.15	136	94.1	31.100	460	19;28;34;37;43;48
150	110	3600	404/5TS	150360T3G405TS-RFVFD	\$14,799	N1B	1107	1.15	169	94.1	31.100	460	19;28;34;37;43;48
200	150	3600	444/5TS	200360T3G444TS-RFVFD	\$18,818	N1B	1535	1.15	233	95	34.575	460	19;28;34;37;43;48
250	185	3600	444/5TS	250360T3G445TS-RFVFD	\$23,745	N1B	1394	1.15	284	95	34.575	460	19;28;34;37;43;48
300	220	3600	447/9TS	300360T3G449TS-RFVFD	\$27,387	N1B	1746	1.15	329	95.4	42.959	460	19;28;34;37;43;48



AEGIS® RING

STANDARD OPTION



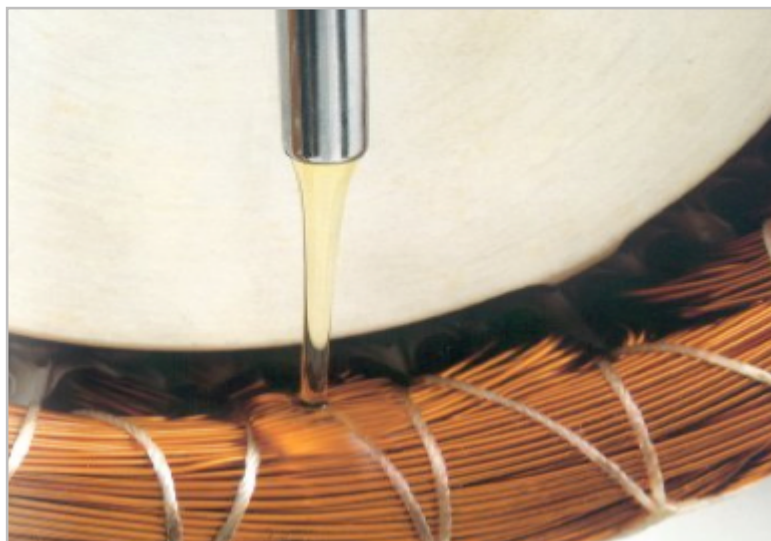
INSULATED BEARING

SUPERIOR INSULATION

Continuous Flow Resin Insulation System (CFRI)

Polyester resin - Class H insulation, NMN slot insulation material with Class H components

The WEG CFRI impregnation system eliminates air bubbles, avoiding electrical discharge (Corona effect). The corona effect destroys organic materials such as films, resin and varnish. This design is extremely important to variable frequency inverter operation. The combination of NMN insulation with impregnation resin increases the mechanical, electrical and thermal strength. The final system provides a strong corona free system with excellent thermal transfer, and moisture resistance for long life on sine wave and VFD service.



Low Voltage Controls Panels

Standard Features

- Soft Starter, VFD, VFD w/SS Bypass Panels
- UL / cUL Listed
- Built in accordance with UL 508A standards
- NEMA 1 environmental rating – other ratings available
- 460V/120V – Other voltages available
- HP ratings up to 1000HP @ 460V
- 65kAIC SCCR panel rating @ 460V
- Ambient Temperature: -10°C to 40°C (14°F to 104°F)
– custom options available for higher / lower temperature applications
- Elevation: 1000m (3300ft) – custom options available for higher elevation applications
- Humidity: 5 – 90% non-condensing
- Fused 3kVA Control Power Transformer – other ratings available
- Door mounted Rotary Disconnect with shunt trip
- Door mounted keypad
- Across the line starter for up to 10HP lube oil pumps/ fans/blowers
- Terminal block interface for field wiring
- Complete factory test for trouble free startup
- Customizable to meet any specification

Optional Features

- Door mounted Flange Disconnect with shunt trip
- Door in Door Low Voltage Compartment
- RS485, DeviceNET, Profibus DP, Ethernet - Communication modules
- Input / Output Reactors & Filters
- Motor temperature monitoring by PTC & PT100 Sensor kits
- Panel / Motor heaters
- Door mounted voltage monitor
- Lightning Arrestor
- Ground fault detection
- Power Factor Correction
- SUSE Service Rated Entrance



Low Voltage Soft Starters

SSW900

Standard Features

- Ratings: 10A to 1400A @ 220Vac - 575Vac
- 90 - 250Vac auxiliary control voltage
- Built in rated (AC1) bypass contactors for all models
- Conformal coated circuit boards.
- Detachable Graphic HMI with USB port, with built-in Bluetooth and copy function
- Oriented start-up and online help
- Real time clock with event log
- 2 independent slots to connect plug-in modules
- Voltage ramp, Current Limit, Current Ramp start modes
- Inputs and outputs with programmable functions
- 5 Digital Inputs, 3 Relay Outputs, 1 Analog Output & 1 Motor PTC Input
- Communication Options: RS485 (Modbus RTU), CANopen, DeviceNet, Profibus DP, Ethernet/IP, Modbus TCP/IP, Profinet IO
- Integral motor thermal protection
- SuperDrive G2 compatible
- Free WPS programming and monitoring software



SSW07

Standard Features

- Ratings: 17A to 412A @ 220Vac – 575Vac
- 110-240Vac auxiliary control voltage
- Built in rated (AC1) bypass contactors for all models
- Conformal coated circuit boards
- Optional HMI
- Online help
- Voltage ramp, Current Limit, Current Ramp start modes
- Inputs and outputs with programmable functions
- 3 Digital Inputs, 2 Relay Outputs
- Communication Options: RS232 / RS485 (Modbus RTU), DeviceNet
- Integral motor thermal protection
- SuperDrive G2 compatible
- Free WPS programming and monitoring software



MEDIUM VOLTAGE SOFT STARTERS & DRIVES

SSW7000



- Universal voltage (220 to 575 Vac)
- Built-in run rated (AC1) by-pass contactor
- Significant reduction of mechanical stresses through the coupling and transmission devices (gearboxes, pulleys, gears, conveyors, etc.) during the start
- Increases motor and machine mechanical equipment lifetime due to the elimination of mechanical shock
- Easy operation, setup, maintenance & installation
- Simple setpoint programming through trim pots
- Operates in environments up to 55°C without current reduction
- Integral, electronic motor protection
- Built-in electronic thermal relay
- Avoids "Water Hammer" in pumps
- Limitation of voltage drop during start
- Switched type power supply with EMC filter for the control electronics (110 to 240 Vac)
- Voltage monitoring of the electronics to back-up Ixt values (thermal image)
- SuperDrive G2 compatible
- Conformal coated circuit boards

MVW01

- Totally digital with high performance 32-bit processor (64-bits bus)
- Smart keypad with graphic display LCD
- Motor voltages: 2.3, 3.3 or 4.16kV, 6.9kV
- Power ratings up to 8000HP
- IP41/NEMA 1 Enclosure
- Air-cooled
- 12-pulse Input Rectifier (18 or 24-pulse as an option), 36 pulse on 6.6kV
- High power factor (> 0.95)
- Multilevel topology (NPC - Neutral Point Clamp - 3/5 levels)
- Fiber optic isolation between the control section and the high voltage power section
- Voltage Source Inverter (VSI)
- Latest generation technology of High Voltage IGBT's (6.5kV) results in a reduced number of components, improving the system efficiency and reliability
- Ultra-reliable dry-type plastic film power capacitors (no need to reformat for as long as 15 years)
- Withdrawable power arms (easy and fast maintenance)
- High efficiency 99%
- Low noise level (< 75dB)
- Low drive losses (low heat generation)
- Conformal coated circuit boards
- Option to mount transformer adjacent to drive cabinet or separately. 70% savings on heat loss
- SuperDrive G2 compatible



LOW VOLTAGE VARIABLE FREQUENCY DRIVES

CFW11

- Ratings: 3.6A to 1141A @ 200Vac - 690Vac
- 90 - 250Vac auxiliary control voltage
- Conformal coated circuit boards
- DC Link Inductors – no need for external line reactance
- Detachable Graphic HMI with copy function
- Oriented start-up and online help
- Real time clock with event log
- 4 independent slots to connect plug-in modules
- Inputs and outputs with programmable functions
- 6 Digital Inputs, 2 Analog Inputs, 3 Relay Outputs, 2 Analog Outputs
- Communication Options: RS485 (Modbus RTU), CANopen, DeviceNet, Profibus DP, Ethernet/IP, Modbus TCP/IP, Profinet IO
- Integral motor thermal protection
- SuperDrive G2 compatible
- Free WPS programming and monitoring software



Options

- Safety stop in compliance with EN 954 - 1 / category III**
 - External control feed with 24 Vdc
 - RFI filter in compliance with EN 61800 - 3 (internal)**
 - DB Resistors available upon request
- ** Factory ordered*

WEG's scope of solutions is not limited to the products and solutions presented in this brochure.


Contact WEG for information on additional products and solutions.

For WEG's worldwide operations visit our website



www.weg.net



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 **Duluth, GA**