Industrial Refrigeration Control Products
Standard Control Solutions for Industrial Refrigeration
WEG Solid State Soft Starters

Competitive Features

- NEMA 1 Free Standing Enclosure
  - NEMA 1 Gasketed
  - Door Mounted Keypad
- Main Circuit Breaker Disconnect
  - Shunt Trip Interface
  - Rated 65kAIC @ 460V/3/60
  - Lockable Rotary Disconnect
- Oil Pump Motor Starter Circuit
  - MPW and Contactor for up to 10Hp Motor
- 3 kVA Control Power Transformer
  - Includes Primary & Secondary Protection
- Terminal Block Interface for Field Wiring
- Built in Accordance With UL-508A Standards
- Current Monitoring via Current Transformer
- WEG Solid State Soft Starters
  - AC1 By-pass Rated for 1.15 Service Factor
  - Starting Cycle 300% for 30 sec
  - Max 10 starts per hour (every 6 min.)
- Ambient: 50°C without derating
- Humidity: 5-90% Non-condensing
- Elevation: 1000 meters without derating
Product Information

WEG STANDARD INDUSTRIAL REFRIGERATION SOFT STARTER PACKAGE SOLUTION

<table>
<thead>
<tr>
<th>HP</th>
<th>Voltage</th>
<th>UL SCCR</th>
<th>NEC FLA</th>
<th>Main CB Trip</th>
<th>Enclosure</th>
<th>Soft Starter</th>
<th>PART NUMBER</th>
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Note: Specify oil pump HP if required
Options: Consult factory

Terms:
Lead time: 4-6 weeks ARO
Freight: ExWorks Duluth, GA
Standard WEG T’s & C’s Apply
Starter Only Warranty: 12/18 Months
Optimal Match Warranty (Motor + Starter) 30/36 Months

Optional Soft Starter Panel Features

- Door in door, low voltage compartment
- Voltage Monitor
- Lightning Arrestors
- Space Heaters
- SUSE Service Entrance Rated
- Ground Fault
- 5 kVA Control Power Transformer
- NEMA 12 Protected Enclosure
- NEMA 3R Protected Enclosure
- NEMA 4 Protected Enclosure
- Power Factor Correction
- Communications (Modbus, Ethernet, etc.)

Reliability as Standard

WEG Variable Frequency Drives and Solid State Soft Starters include Conformal Coating as a standard feature. The Class 3C2 coating is standard for all circuit boards providing greater protection against airborne contaminants. This helps protect the electronic circuit boards against dust, humidity, high temperatures and some chemicals. Meets IEC 60721-3-3 requirements for corrosive environments.
Standard VFD Panel Features

- Ventilated NEMA 1 Free Standing Enclosure
  - NEMA 1 Gasketed
  - Door Mounted Keypad
- Main Circuit Breaker Disconnect
  - Shunt Trip Interface
  - Rated 65kAIC @ 460V/3/60
  - Lockable Rotary Disconnect
- Oil Pump Motor Starter Circuit
  - MPW and Contactor for up to 10Hp Motor
- 3 kVA Control Power Transformer
  - Includes Primary & Secondary Protection
- Terminal Block Interface for Field Wiring
- Built in Accordance with UL-508A Standards
- UL508A Labeled

WEG Variable Frequency Drives

- Based on 1.0 Service Factor
- Overload capacity: 110% for 60 seconds (150% peak for 3 seconds)
- I/O Includes Interposing Relays
- 4-20 mA motor current feedback
- Built-in 3% impedance DC reactor as standard
- 700HP-1000HP use 3% AC line reactors
- Ambient: 40°C without derating
- Humidity: 5-90% Non-condensing
- Elevation: 1000 meters without derating

Optional Variable Frequency Drive Panel Features

- Door in door, low voltage compartment
- Voltage Monitor
- Lightning Arrestors
- Space Heaters
- SUSE Service Entrance Rated
- Ground Fault

- 5 kVA Control Power Transformer
- NEMA 12 Protected Enclosure
- NEMA 3R Protected Enclosure
- NEMA 4 Protected Enclosure
- Power Factor Correction
- Heavy Duty Rated 150% for 60 sec. – 1.15% S.F.
- Communications (Modbus, Ethernet, etc.)
# Product Information

## WEG STANDARD INDUSTRIAL REFRIGERATION VFD PACKAGE SOLUTION

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<th>Voltage</th>
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**Note:** Specify oil pump HP if required  
**Options:** Consult factory  
**Terms:**  
- Lead time: 8 weeks ARO  
- Freight: ExWorks Duluth, GA  
- Standard WEG T’s & C’s Apply  
- Starter Only Warranty: 12/18 Months  
- Optimal Match Warranty (Motor + Starter) 30/36 Months

**NOTE:** Solid State Soft Starter By-pass Available, Contact Factory for More Information and Pricing
Product Information and Pricing

WEG has electrical and functional replacements for other manufacturers devices.

- WEG manufactured components
- Built in Duluth, GA
- Pre-engineered, data and drawings available with quote
- Compact design for easy installation
- Complete factory test allowing for trouble free start up
- Time saving terminal connections
- Flexible wiring, top, bottom, side

Information needed to quote:

- Type of control needed
- HP, voltage, RPM, FLA
- Enclosure
- Ambient temperature and elevation
- Oil pump starter
- Control transformer
- Circuit breaker size
- Options needed
- Original control model and serial number
- Manufacture details including dimensions
- Photograph of existing product

Available Replacement Parts Include

- Contactor
- Overload relay
- Circuit breaker
- Manual Motor Protectors (MPW)
- Terminal block
- Transformer
- Pilot devices
- Variable frequency drive modules
- Solid state starter modules
- Power factor correction capacitors
WEG Warranty for Soft Starters and Variable Frequency Drives

WEG Refrigeration Control Products Warranty is a thirty six (36) month warranty available when a WEG low voltage motor is applied with a WEG low voltage drive or soft starter. In order to qualify for this warranty, the products must be registered and approved by WEG’s warranty department using this Optimal Match Warranty form.

This offer is only available in the US.

The following products and combinations are eligible for the Optimal Match Warranty:

- Drives and motors that qualify for this Optimal Match Warranty are W22 motors coupled with CFW11 up to 800HP (877 amps); all CFW100, CFW300, CFW500/501, CFW700/701; and CFW08 drives.
- Soft starters and motors that qualify for this Optimal Match Warranty are W22 motors coupled with SSW06 up to 800HP (950 amps); all SSW05 and SSW07 soft starters.

When the drive or soft starter is invoiced on the same date as the motor, the Optimal Match Warranty will be eligible on the invoice date, however the Optimal Match Warranty request (this form) must be sent within 180 days of purchase.

When the drive or soft starter is invoiced on a different date as the motor, the following conditions apply to be eligible for the Optimal Match Warranty:

- The Optimal Match Warranty shall be started from the first invoice date (Drive, Soft Starter or Motor).
- The Optimal Match Warranty request must be sent within 180 days from the date of the later product purchase.
- The dates of the original invoices of both products cannot be over than 30 days apart.
- Maximum warranty period will be 36 months total from the date of the earlier original product invoice.
WEG Electric Corp. offers the following products, and more! With a full range of IEC/NEMA Global Certifications and a full line of products, WEG can supply the right solution for your needs anywhere in the world. To learn more about WEG’s products and solutions or to locate a Distributor near you, please call 1-800-ASK-4WEG or visit www.weg.net.

**Low Voltage Motors, Single and 3-Phase, 1/8 – 700HP**
- General Purpose Motors
- Explosion Proof Motors
- IEC Tru-Metric Motors
- Pump Motors including JP/JM
- P-Base Pump Motors
- Oil Well Pumping Motors
- Pool & Spa Motors
- Brake Motors
- Compressor Duty Motors
- Farm Duty Motors
- Poultry Fan Motors
- Auger Drive Motors
- IEEE 841 Motors
- Stainless Steel Wash Down Motors
- Saw Arbor Motors
- Cooling Tower Motors
- Commercial HVAC Motors
- Pad Mounted Motors
- Vector Duty Motors

**Large Electric Motors**
- Low Voltage 3-phase motors up to 2,500HP
- Motors up to 70,000HP and 13,200V
- Wound Rotor Systems (including starters) up to 70,000HP and 13,200V
- Synchronous Motors up to 70,000HP and 13,200V
- Explosion proof motors (Ex-d) up to 1,500kW and 11kV
- Ex-n, Ex-e, Ex-p motors

**Variable Frequency Drives**
- Low Voltage 1/4 to 2500HP, 230V – 480V
- Medium Voltage 500-8000HP
- Multi-pump systems
- NEMA 4X
- Dynamic braking resistors
- Line and load reactors
- Plug and play technology
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- PLC functions integrated
- Complete line of options and accessories

**Soft Starters**
- 3-1500HP
- Oriented start-up
- Built-in bypass contactor
- Universal source voltage (230-575V, 50/60Hz)
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- Complete Line of options and accessories
- MV Soft-starter 3.3kV, 41.6kV: up to 3500HP, Withdrawable Power Stacks, & 8x PT100 Temperature monitoring

**Controls**
- Mini – Contactors
- IEC Contactors
- Thermal Overload Relays
- Manual Motor Protectors
- Molded Case Circuit Breakers
- Smart Relays
- Enclosed Starters: combination & non-combination,
- Pushbuttons & Pilot Lights
- Timing & Motor Protection Relays
- Terminal Blocks

**Custom Panels**
- Custom configured to your specification.
- NEMA 1, 12, 3P, 4 and 4X cabinets
- Quick delivery of preconfigured drives and soft starters
- UL 508 certified
- Low Voltage (230-460)
- Made in the U.S.A.

**Generators**
- Brushless Synchronous Generators for diesel gen-sets up to 4,200kVA
- Hydro-generators up to 25,000kVA
- Turbo-generators up to 62,500kVA

**Power Transformers**
- Built and engineered in North America
- Voltages < 500kV
- Ratings 5-300MVA
- Station class, oil filled, round core, copper windings
- Special configurations and designs available!
- Ask your WEG Sales Representative for details.

**Custom Solution Package Sales**
- WEG can package any of its products for ease of sale! Enjoy a single point of contact for the entire package of products and assistance from quote through after-sales support. Ask your WEG Sales Representative for details.

For more information or a quote contact:

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syanchocik@weg.net  
cell: 610-730-2325

Rich Muraca  
Manager - Business Division  
rmuraca@weg.net  
cell: 724-372-5431

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