Motor Controls

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WEG CWB Series Contactors (3-Pole)

More Horsepower in a Smaller (45mm) Frame

CWB series contactors meet the requirements of IEC 60947 and UL 508 making them ideal for a wide range of industrial applications. These contactors allow for simple and compact mounting of surge suppressor blocks and are available with AC or DC coils. WEG CWB series contactors start at $27.75.

- "Zero-width™" mechanical interlock
- Easy access power and control terminals
- Simple and organized control circuits
- LNO+1NC auxiliary included, Additional add-on contacts available
- Matching direct mount overload relays

WEG Electric Miniature Contactors (3-Pole & 4-Pole)

More Horsepower in a Smaller (45mm) Frame

CWC series mini contactors are a complete solution for controlling motors and switching other loads. The CWC’s compact dimensions for its IEC current rating, up to 22A, AC-3 utilization category, allows it to take up less space inside electrical enclosures while still maintaining a powerful 15 hp @ 460V. WEG RW series overload relays are available for use with this series. WEG CWC series miniature contactors start at $12.00.

- 7, 9, 12, 16, 22 Amp 3-pole models and 7, 9, 16 Amp 4-pole models
- Available auxiliary contact blocks, surge suppressors, Start-Delta electronic timing relays, wiring kits, and mechanical interlock and latch blocks
- Matching direct mount overload relays

MPW Series Manual Motor Protectors

WEG MPW series manual motor protectors provide a very compact solution for operation and protection of motor control operations. The MPW series meets all requirements from NEC to be considered a combination motor starter and UL requirements for self protected motor controllers used in Type E and F applications. The MPW series can be used for a variety of industrial applications. WEG MPW series manual motor protectors start at $48.00.

RW Series Thermal Overload Relays - Bi-metallic

WEG RW series class 10 thermal overload relays provide extended operational life service and are designed for use with WEG CWB standard contactors and CWC miniature contactors. These relays can be mounted directly under WEG contactors to be used as an across-the-line starter and accessories are available for separate mounting.

RW series relays are available in three frame sizes and are designed to pair with the appropriate WEG contactor to create a compact motor starter.

- RW17 & CWC Mini-contacts controls fractional to 15 hp @ 460V motors
- RW27 & CWB17 to CWB38 contactors controls 5 to 25 hp @ 460V motors
- RW67 & CWB40 to CWB80 contactors controls 30 to 50 hp @ 460V motors

WEG RW series bi-metallic thermal WEG RW series bi-metallic thermal overload relays start at $16.00.

RW-E Series Solid State Overload Relays

WEG RW-E series solid state overload relays are developed with cutting-edge technology to meet the most demanding standards worldwide. These overload relays have a wide range of current/AMP settings and can be used to protect electric motors of different power ratings. The greatest benefit of these overload relays is versatility and flexibility that makes it possible to standardize control panels. WEG RW-E series overload relays start at $16.00.

- adjustable trip class: 10, 20 and 30
- Self-powered
- Wide 5:1 adjustment range
- Thermal memory
- Phase-loss protection (less than 5s)
- Phase unbalance protection

WEG ESW/PESW Non-Combination Enclosed Starters

WEG offers non-reversing and non-combination magnetic starters up to 25HP at 460VAC (38A). These starters feature components that meet IEC design standards and UL horsepower ratings, incorporating WEG contactors and overload relays, the magnetic starters are ideal for protecting and operating motors, ensuring smooth operation year after year. Metallic Type 1 (ESW series) and non-metallic Type 4X (PESW series) are available.

Fuji Electric Motor Contactors and Overload Relays

AutomationDirect offers a complete line of Fuji Electric IEC motor controls. The DUO line (SC-E contactors and T-K-E overload) is fully integrated as multiple motor control solutions are possible with a minimum number of components. The SC-E contactors work with either the conventional adjustable overload or the Manual Motor Starter (MMS) to create starters for a variety of applications. The conventional starters in the DUO line can accommodate motors up to 100 horsepower at 480 VAC. The larger contactors feature the SUPER-MAGNET™ coil for greater reliability and positive pick-up and drop-out. Fuji contactors start at just $17.00.

- Controls from 1/2 to 100 hp
- 75mm to 155mm frames

The Odyssey Series of contactors and overload also features the SUPERMAGNET™ coil and are available in four sizes with overloads to match any motor to 300 horsepower.

- Controls from 60 to 300 hp
- 120mm to 150mm frames

Both the DUO and Odyssey lines are available in 24VAC, 24VDC, 120VAC, and 240VAC coil versions. Certain models are available with 575V coils. Contactors are rated up to 600VAC, 3-phase.

Fuji Manual Motor Starters

The DUO series of manual motor starters are circuit breakers for motors that provide optional protection by integrating the functions of a molded case circuit breaker and thermal overload relay into a compact unit.

Definite Purpose Contactors

DP Contactors are electrically operated switching devices originally design for HVACR industry. They are used for switching power or motor circuits that are most commonly found in applications including resistance heating, air-conditioning, and refrigeration. However, DP contactors are suitable for a wide range of other low-cycle duty applications that require low cost switching of single- and three-phase loads. Sample applications include:

- Lighting
- Agriculture
- Elevators
- Food service equipment
- Cranes/Hoists
- Welding machine
- Pumps/Compressors

GH15 Series IEC Contactors / Motor Starters / Overload Relays

The GH15 Series of IEC contactors and bimetallic overload relays are manufactured by Europe’s leading maritime contactor company. Motor contactors for ocean-going vessels are built to the most rigid specifications. This same design technology carries over to this line of industrial electric motor controls. Ideal for applications requiring a heavy-duty switching device with up to three poles. Add up to eight auxiliary contact blocks for interlocks and feedback. Or, use the optional mechanical interlock to create a low-cost reversing contactor.

Individual components allow you to use the contactor alone or to assemble a motor starter using accompanying overload relays. Combine a manual motor starter/protector for all-in-one protection.

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Motor Controls for less... (continued)

Eaton Corp. Cutler-Hammer Contactors / Motor Starters / Overload Relays
The Eaton CE15 Freedom Series IEC contactors offer big contactor ratings in a compact frame. The 45mm frame contactors handle up to 20 hp at 460V and are easily DIN-rail mountable. The Eaton AE16 Series IEC starters are full voltage magnetic starters used for starting polyphase induction motors while providing protection to a motor against running or stalled overcurrents. The 45mm frame starters can handle up to 20 hp at 460V and are easily DIN-rail mountable in either the vertical or horizontal upright position. Motor starters are comprised of a contactor, overload relay and heater packs. The overload relays have FLA adjustable dials.

Eaton Corp. XT Electronic Series Overload Relays
Our new Eaton XT electronic overload relays (EOL) are the most compact, high-featured, economical products in their class. Designed to cover the entire power control spectrum including NEMA, IEC and DP contactors, their electronic design provides communication capabilities and reliable, accurate and value-driven protection. The XT is a self-powered electronic overload relay available up to 175A as a self-contained unit.

Which has more capability?
210 Thermal Overload Relays
or
5 Eaton XT Electronic Overload Relays
Add up all the thermal overload relays it would take to cover 0.3 to 100 amps, class 10, class 20, class 30, and class 10A with automatic and manual reset. It would take 214 different thermal overload relays!
Eaton’s XT electronic overload relays allow selection of these options right on the face of every overload relay. Imagine the amount of applications that can be covered with just a handful of inventory.

Bryant Manual Motor Controllers/ Motor Disconnects
Bryant has designed a compact motor controller that will also meet the rigorous demands of a motor disconnect. Bryant’s motor controllers are listed as “Suitable as Motor Disconnect” under UL Standard 508 – Industrial Control Equipment – qualifying them to perform both operations in one compact package. By utilizing Bryant’s compact motor controllers and motor disconnects, you benefit through the convenience of one device fulfilling two needs. AutomationDirect offers three versions of manual motor controllers (MMCs) and industrial motor disconnects, starting at $26.50:
- Toggle switch AC motor controllers
- Enclosed toggle switch AC motor controllers
- Enclosed NEMA 4X rotary switch AC motor controllers