



# Bulletin 100 Line IEC Contactors, Accessories and Overload Relays

## General Specifications

### 1.0 General

- 1.1 This specification describes requirements for IEC electro-mechanical contactors intended for General Industrial use.
- 1.2 Contactors shall be UL listed and CSA certified. Must also comply with major European standards, including IEC 947-4, BS 5424 and VDE 0660
- 1.3 Starters (contactors and overload relays) shall be UL Certified to comply with IEC 947-4-1, Type "2" Coordination requirements at 600V AC with a 100,000 ampere available fault current when protected by any brand of UL Listed Class J or CC fuses.

### 2.0 Contactors

- 2.1 Magnetic assembly shall be a horizontal action design with elastomer pads to reduce mechanical shock.
- 2.2 Coil identification external to contactor.
- 2.3 Coil replaced without removing contactor from mounting.
- 2.4 Contactor status indicator on front cover as standard.
- 2.5 Contacts shall be inspectable on all size contactors. Replaceable contacts on 38A and larger.
- 2.6 Mounting dimensions referenced on contactor.
- 2.7 Nameplate shall contain complete horsepower and kW ratings.
- 2.8 Capable of mounting on 35 mm DIN Rail through 45A size.
- 2.9 Devices for DIN Rail mounting shall incorporate an anti-slide feature.
- 2.10 One normally open hold-in contact shall be provided as standard.
- 2.11 Contactor furnished with captive and backed out terminal screws.
- 2.12 Terminals designed for #2 AWG wire and smaller shall provide shrouded finger protection against accidental contact as standard.
- 2.13 Terminal shroud design shall include retained visibility for ease of wiring.
- 2.14 Terminals marked with CENELEC and NEMA markings.
- 2.15 Terminal markings shall be clearly visible when auxiliary contacts are installed.
- 2.16 Protected component marker for ease of identification.
- 2.17 Pure DC operating coils shall be available through 180A.
- 2.18 DC coils shall be available with PLC compatibility on 38A through 180A contactors.

### 3.0 Accessories

- 3.1 Dual interlock, including mechanical and electrical in one unit, that does not add to the depth of the contactor.
- 3.2 Pneumatic timer, capable of a timing range from .1 to 180 seconds.
- 3.3 Surge suppression module shall not interfere with mounting of other accessories.
- 3.4 Mechanical latch for use on contactors through 45A.
- 3.5 Power wiring kits for field assembly of reversing contactors.
- 3.6 Interface module to provide DC control of AC coil.
- 3.7 Separate terminal lugs available for 110A through 600A contactors.
- 3.8 Two and four pole auxiliary contact blocks available and easily installable from the front of contactor.
- 3.9 One and two pole auxiliary contact blocks available and easily installable on the left and right side of the contactor.

### 4.0 Overload Relays

- 4.1 Adjustable bimetal type with integral heater elements.
- 4.2 Reset options shall include manual or automatic functions.
- 4.3 Class 10 tripping characteristics.
- 4.4 Isolated N.O. and N.C. alarm contacts standard.
- 4.5 A coil terminal extension shall be available on all versions below 30 Amps.
- 4.6 Optional clear plastic shield to inhibit tampering of reset and trip settings.
- 4.7 DIN Rail mounting option available through 45A range.
- 4.8 Sensitive to single phase conditions.
- 4.9 Separate test and reset buttons as standard.
- 4.10 Ambient temperature compensation as standard.
- 4.11 Visible trip indicator as standard.
- 4.12 Optional eutectic alloy overload relays available.



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