



Bulletin 300 line — AC Contactors and Starters (Sizes 0 - 5)

General Specifications

1.0 General

- 1.1 This specification describes requirements for electro-mechanical contactors and starters sizes 0 - 5, intended for general industrial use including machinery, manufacturing and process control applications.
- 1.2 Contactors and starters installed on machines and industrial equipment shall conform and be built in accordance with industry standard practices as outlined in NEMA Standard ICS 1996.
- 1.3 Each contactor and starter shall be listed by UL and accessory attachments shall not void listing.
- 1.4 Starters shall 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 fuse.

2.0 Contactors

- 2.1 Magnetic assembly shall be a horizontal action design.
- 2.2 Coil voltage and frequency 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 Replaceable contacts on size 2 and larger.
- 2.6 Mounting dimensions referenced on contactor.
- 2.7 Capable of mounting on 35mm DIN Rail through size 2.
- 2.8 Devices for DIN Rail mounting shall incorporate an anti-slide feature.
- 2.9 One normally open hold-in contact shall be provided as standard.
- 2.10 Contactor furnished with captive and backed out terminal screws.

2.11 Terminals designed for #2 AWG wire and smaller shall provide shrouded finger protection against accidental contact as standard.

2.12 Terminals marked with CENELEC and NEMA markings.

2.13 Terminal markings shall be clearly visible when auxiliary contacts are installed.

2.14 Protected component marker for ease of identification.

2.15 Pure DC operating coils shall be available through size 1.

Economized dual wound coil for size 2.

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 0.1 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 size 2.

3.5 Power wiring for 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 size 3 through size 5 contactors.

3.8 Two and four pole auxiliary contact blocks available and easily installed on the front of the contactor, through size 2.

3.9 One and two pole auxiliary contact blocks available and easily installable on the front of the contactor.

3.10 Remote Overload Reset.

4.0 Overload Relays

4.1 Adjustable electronic type.

4.2 Wide adjustment range.

4.3 Low energy consumption.

4.4 Reset options shall include manual or automatic functions.

4.5 Class 20 tripping characteristics, class 10 and 30 available.

4.6 Isolated N.O. and N.C. alarm contacts standard.

- 4.7 Optional clear plastic shield to inhibit tampering of reset and trip settings.
- 4.8 DIN Rail mounting option available through size 2.
- 4.9 Phase Loss Protection.
- 4.10 Separate test and reset buttons as standard.
- 4.11 Ambient temperature compensation as standard.
- 4.12 Visible trip indicator as standard.



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