



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 1988. ★
 - 1.3 Each contactor and starter shall be listed by UL and accessory attachments shall not void listing.
 - 1.4 Starters 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 RK1, J or CC fuses. ★
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2.0 Enclosure Finish

- 2.1 Thorough cleaning.
 - 2.2 Phosphate prepaint treatment.
 - 2.3 Baked enamel - durable hard finish.
 - 2.4 Unpainted metal parts plated to resist corrosion.
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3.0 Magnetic Motor Starter

- 3.1 Contactor
 - 3.1.1 Vertical lift - gravity dropout with no pivots or bell cranks.
 - 3.1.2 Double break silver alloy contacts.
 - 3.1.3 Prominent "ON-OFF" indicator on front.
 - 3.1.4 Permanent air gap in magnet yoke.
 - 3.1.5 Hot pressure molded coil, color coded for identification.
 - 3.1.6 Power contacts replaceable without disconnecting terminal wiring.
 - 3.1.7 Up to 8 auxiliary contacts including hold-in contact.
- 3.2 Terminals and Wiring
 - 3.2.1 Control terminals shall have retractable wire clamps which will clamp conductor strands between two non-rotating surfaces.
 - 3.2.2 All terminals shall be accessible for wiring without disturbing other components.

3.0 Magnetic Motor Starter

- 3.2 Terminals and Wiring (continued)
 - 3.2.3 Starter power wiring shall be straight-through with line terminals above and load terminals below the moving assembly.
 - 3.2.4 Surge suppression for 120 or 240 volt AC shall mount across coil terminals of contactors and starters without disturbing or taking the space of other accessories. ★
- 3.3 Overload Relays
 - 3.3.1 Three pole block style overload relay.
 - 3.3.2 Eutectic alloy type.
 - 3.3.3 Manual reset with "trip-free" operation.
 - 3.3.4 Tamper-proof provisions: Non-adjustable and non-convertible from manual to automatic operation.
 - 3.3.5 Single, large reset button with "non-slip" surface.
 - 3.3.6 Optical trip indicator.
 - 3.3.7 Test module to allow opening of N.C. contact.
 - 3.3.8 N.O. or N.C. alarm circuit contact field addable. ★
 - 3.3.9 Standard element to be Class 20 design.
- 3.4 Multiple Starter Assemblies e.g. Reversing and Multi-Speed
 - 3.4.1 Shall have electrical and mechanical interlocks.
 - 3.4.2 Multiple starter assemblies shall have starters mounted to a base plate with screws to allow contactor replacement.
 - 3.4.3 Two speed starters to motors with reconnectable windings shall consist of 5 pole - 3 pole contactor construction.

★ Added or changed since previous issue.



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