

Standards and Certifications

- Standard: designed to meet or exceed UL, NEMA, IEC, CSA, VDE and BS
- UL listed: UL File #E1491, Guide #NLDX—Open and NEMA 1, 4, 12 Enclosed
- CSA Certified: CSA File #LR353, Class #321104 Open and NEMA 1 Enclosed



ISO 9000 Certification

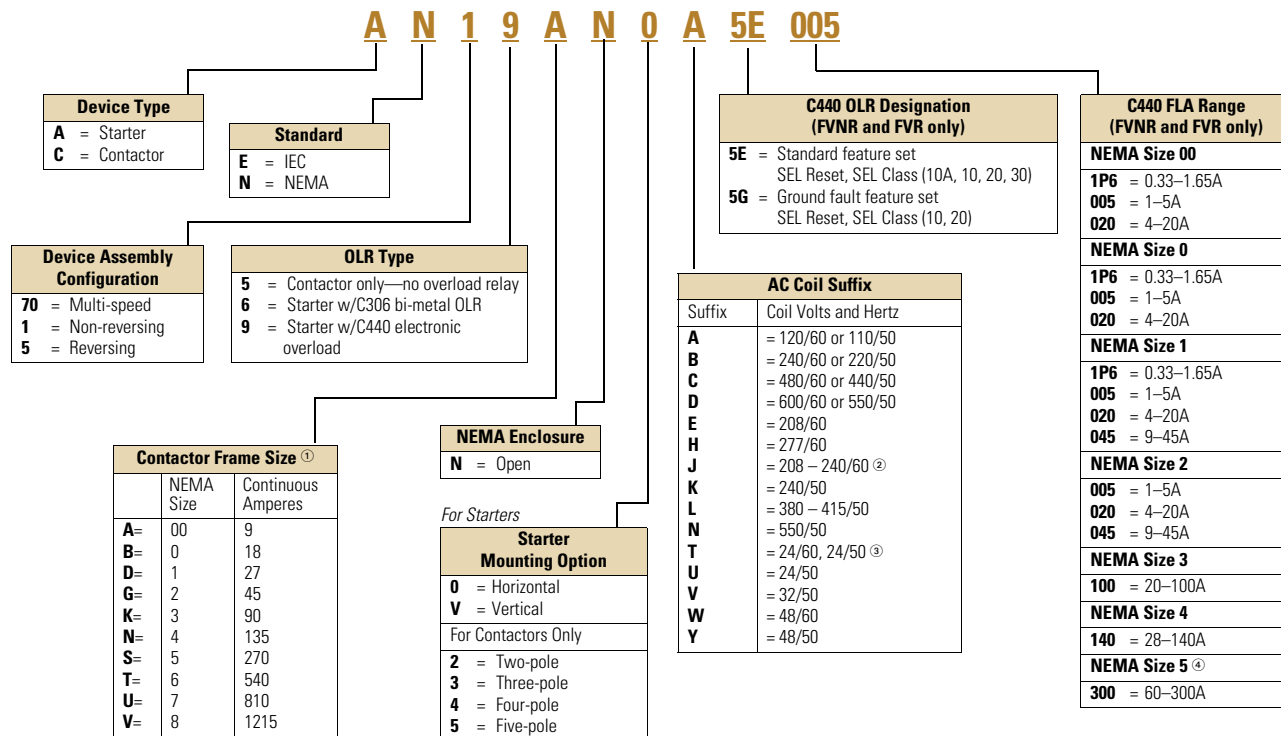
When you turn to Eaton's products, you turn to quality. The International Standards Organization (ISO) has established a series of standards acknowledged by 91 industrialized nations to bring harmony to the international quest for quality. The ISO certification process covers 20 quality system elements in design, production and installation that must conform to achieve registration. This commitment to quality will result in increased product reliability and total customer satisfaction.

Short Circuit Protection

Fuses and Inverse-Time Circuit Breakers may be selected per Article 430, Part D of the National Electrical Code to protect motor branch circuits from fault conditions. If higher ratings or settings are required to start the motor, **do not** exceed the maximum as listed in Exception No. 2, Article 430-52.

Catalog Number Selection

Freedom Series

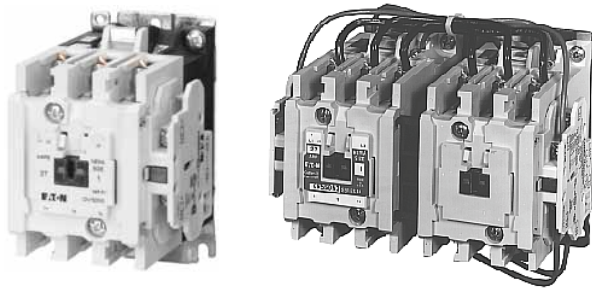


Notes

- ① For contactor only orders, add **B** to end of catalog number if NEMA Size 00–2, 6.
- ② NEMA Sizes 00 and 0 only.
- ③ NEMA Sizes 00 and 0 only. Sizes 1–8 are 24/60 only.
- ④ NEMA Size 5 requires the use of CTs with 1-5A OL relay.

Non-Reversing and Reversing Contactors

2



Contactors—Non-Reversing and Reversing

Product Description

Non-Reversing

Contactors are most commonly used to switch motor loads in applications where running overcurrent protection is either not required or is provided separately. Contactors consist of a magnetically actuated switch which can be remotely operated by a pushbutton station or pilot device such as a proximity switch, limit switch, float switch, auxiliary contacts, and so on.

Reversing

Reversing contactors are used primarily for reversing single- or three-phase motors in applications where running overcurrent protection is either not required or is provided separately. They consist of two contactors mechanically and electrically interlocked to prevent line shorts and energization of both contactors simultaneously.

Contents

Description**Page**

Contactors—Non-Reversing and Reversing	
Product Selection	V5-T2-5
Kits and Accessories	V5-T2-6
Renewal Parts Publication Numbers	V5-T2-6
Technical Data and Specifications	V5-T2-7
Dimensions	V5-T2-8
Starters—Three-Phase Non-Reversing and Reversing, Full Voltage	V5-T2-10
Starters—Single-Phase Non-Reversing, Full Voltage, Bi-Metallic Overload	V5-T2-15
Accessories	V5-T2-21
Renewal Parts	V5-T2-30
Technical Data and Specifications	V5-T2-34
Relays—Thermal Overload	V5-T2-38

Features, Benefits and Functions

- Designed specifically for use in applications requiring NEMA ratings. Contactors meet or exceed NEMA standards ICS 2-1993
- Long life twin break, silver cadmium oxide contacts—provide excellent conductivity and superior resistance to welding and arc erosion
- Designed to 3,000,000 electrical operations at maximum hp ratings up through 25 hp at 600V
- Steel mounting plate standard on all open type contactors

Non-Reversing

- Holding circuit contact(s) supplied as standard:
 - Sizes 00–3 have NO auxiliary contact block mounted on right hand side (on Size 00, contact occupies 4th power pole position—no increase in width)
 - Sizes 4–5 have a NO contact block mounted on left side
 - Sizes 6–7 have a 2NO/2NC contact block on top left
 - Size 8 has a NO/NC contact block on top left back and a NO contact block on top right back

Reversing

- One NO-NC side mounted interlock supplied as standard on each contactor for Sizes 00–8