

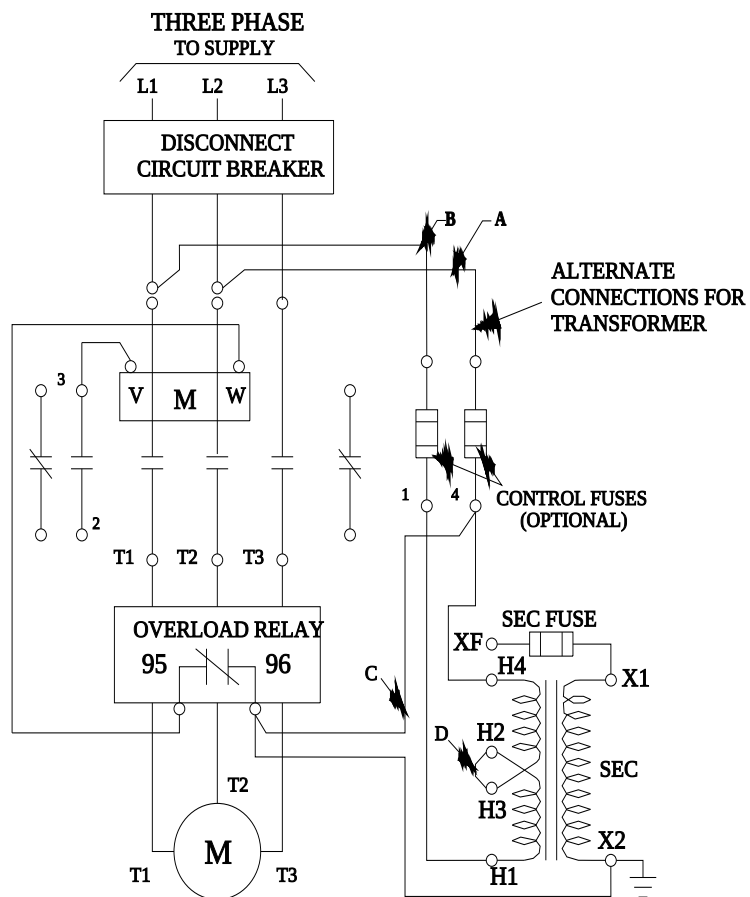


Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, Combination type, 50A circuit breaker, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Extra-wide enclosure

|                                                                          |                                                                       |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------|
| product brand name                                                       | Class 18 & 26                                                         |
| design of the product                                                    | Full-voltage non-reversing motor starter with motor circuit protector |
| special product feature                                                  | ESP200 overload relay; Dual voltage coil                              |
| <b>General technical data</b>                                            |                                                                       |
| Height x Width x Depth [in]                                              | 24 × 20 × 8 in                                                        |
| touch protection against electrical shock                                | NA for enclosed products                                              |
| installation altitude [ft] at height above sea level maximum             | 6560 ft                                                               |
| ambient temperature [°F]                                                 |                                                                       |
| • during storage                                                         | -22 ... +149 °F                                                       |
| • during operation                                                       | -4 ... +104 °F                                                        |
| ambient temperature                                                      |                                                                       |
| • during storage                                                         | -30 ... +65 °C                                                        |
| • during operation                                                       | -20 ... +40 °C                                                        |
| <b>Horsepower ratings</b>                                                |                                                                       |
| yielded mechanical performance [hp] for 3-phase AC motor                 |                                                                       |
| • at 200/208 V rated value                                               | 10 hp                                                                 |
| • at 220/230 V rated value                                               | 15 hp                                                                 |
| • at 460/480 V rated value                                               | 25 hp                                                                 |
| • at 575/600 V rated value                                               | 25 hp                                                                 |
| <b>Contactors</b>                                                        |                                                                       |
| size of contactor                                                        | NEMA controller size 2                                                |
| number of NO contacts for main contacts                                  | 3                                                                     |
| operating voltage for main current circuit at AC at 60 Hz maximum        | 600 V                                                                 |
| operational current at AC at 600 V rated value                           | 45 A                                                                  |
| mechanical service life (operating cycles) of the main contacts typical  | 10000000                                                              |
| <b>Auxiliary contact</b>                                                 |                                                                       |
| number of NC contacts at contactor for auxiliary contacts                | 0                                                                     |
| number of NO contacts at contactor for auxiliary contacts                | 1                                                                     |
| number of total auxiliary contacts maximum                               | 7                                                                     |
| contact rating of auxiliary contacts of contactor according to UL        | 10A@600VAC (A600), 5A@600VDC (P600)                                   |
| <b>Coil</b>                                                              |                                                                       |
| type of voltage of the control supply voltage                            | AC                                                                    |
| control supply voltage                                                   |                                                                       |
| • at AC at 60 Hz rated value                                             | 220 ... 480 V                                                         |
| holding power at AC minimum                                              | 8.6 W                                                                 |
| apparent pick-up power of magnet coil at AC                              | 218 VA                                                                |
| apparent holding power of magnet coil at AC                              | 25 VA                                                                 |
| operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1                                                          |

|                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| percental drop-out voltage of magnet coil related to the input voltage                                                   | 50 %                                                |
| ON-delay time                                                                                                            | 19 ... 29 ms                                        |
| OFF-delay time                                                                                                           | 10 ... 24 ms                                        |
| <b>Overload relay</b>                                                                                                    |                                                     |
| product function                                                                                                         |                                                     |
| • overload protection                                                                                                    | Yes                                                 |
| • phase failure detection                                                                                                | Yes                                                 |
| • asymmetry detection                                                                                                    | Yes                                                 |
| • ground fault detection                                                                                                 | Yes                                                 |
| • test function                                                                                                          | Yes                                                 |
| • external reset                                                                                                         | Yes                                                 |
| reset function                                                                                                           | Manual, automatic and remote                        |
| trip class                                                                                                               | CLASS 5 / 10 / 20 (factory set) / 30                |
| adjustable current response value current of the current-dependent overload release                                      | 13 ... 52 A                                         |
| make time with automatic start after power failure maximum                                                               | 3 s                                                 |
| relative repeat accuracy                                                                                                 | 1 %                                                 |
| product feature protective coating on printed-circuit board                                                              | Yes                                                 |
| number of NC contacts of auxiliary contacts of overload relay                                                            | 1                                                   |
| number of NO contacts of auxiliary contacts of overload relay                                                            | 1                                                   |
| operational current of auxiliary contacts of overload relay                                                              |                                                     |
| • at AC at 600 V                                                                                                         | 5 A                                                 |
| • at DC at 250 V                                                                                                         | 1 A                                                 |
| contact rating of auxiliary contacts of overload relay according to UL                                                   | 5A@600VAC (B600), 1A@250VDC (R300)                  |
| insulation voltage (Ui)                                                                                                  |                                                     |
| • with single-phase operation at AC rated value                                                                          | 600 V                                               |
| • with multi-phase operation at AC rated value                                                                           | 300 V                                               |
| <b>Enclosure</b>                                                                                                         |                                                     |
| degree of protection NEMA rating                                                                                         | 4, 12                                               |
| design of the housing                                                                                                    | dustproof, waterproof & weatherproof                |
| <b>Circuit Breaker</b>                                                                                                   |                                                     |
| type of the motor protection                                                                                             | Motor circuit protector (magnetic trip only)        |
| operational current of motor circuit breaker rated value                                                                 | 50 A                                                |
| adjustable current response value current of instantaneous short-circuit trip unit                                       | 180 ... 600 A                                       |
| <b>Mounting/wiring</b>                                                                                                   |                                                     |
| mounting position                                                                                                        | Vertical                                            |
| fastening method                                                                                                         | Surface mounting and installation                   |
| type of electrical connection for supply voltage line-side                                                               | Box lug                                             |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded                        | 1x (10 AWG ... 1/0 AWG)                             |
| temperature of the conductor for supply maximum permissible                                                              | 75 °C                                               |
| material of the conductor for supply                                                                                     | AL or CU                                            |
| type of electrical connection for load-side outgoing feeder                                                              | Box lug                                             |
| tightening torque [lbf·in] for load-side outgoing feeder                                                                 | 45 ... 45 lbf·in                                    |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded       | 1x (14 ... 2 AWG)                                   |
| temperature of the conductor for load-side outgoing feeder maximum permissible                                           | 75 °C                                               |
| material of the conductor for load-side outgoing feeder                                                                  | AL or CU                                            |
| type of electrical connection of magnet coil                                                                             | Screw-type terminals                                |
| tightening torque [lbf·in] at magnet coil                                                                                | 5 ... 12 lbf·in                                     |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded                      | 2x (16 ... 12 AWG)                                  |
| temperature of the conductor at magnet coil maximum permissible                                                          | 75 °C                                               |
| material of the conductor at magnet coil                                                                                 | CU                                                  |
| type of electrical connection for auxiliary contacts                                                                     | Screw-type terminals                                |
| tightening torque [lbf·in] at contactor for auxiliary contacts                                                           | 10 ... 15 lbf·in                                    |
| type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded | 1x (12 AWG), 2x (16 ... 14 AWG), 2x (18 ... 16 AWG) |





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