



Figure similar

Non-reversing motor starter Size 1 3/4 Three phase full voltage Solid-state overload relay OLRelay amp range 10-40a 208VAC 60HZ coil Combination type 40AMP circuit breaker Enclosure NEMA type 4/12 Water/dust tight for outdoors Standard width 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; Half-size controller                           |
| <b>General technical data</b>                                           |                                                                       |
| Height x Width x Depth [in]                                             | 24 × 11 × 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                                              | 0 hp                                                                  |
| • at 220/230 V rated value                                              | 0 hp                                                                  |
| • at 460/480 V rated value                                              | 15 hp                                                                 |
| • at 575/600 V rated value                                              | 15 hp                                                                 |
| <b>Contactors</b>                                                       |                                                                       |
| size of contactor                                                       | Controller half size 1 3/4                                            |
| 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                          | 40 A                                                                  |
| mechanical service life (switching 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                              | 8                                                                     |
| 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                                            | 208 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                               | 10 ... 40 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                                                          | 40 A                                         |
| adjustable current response value current of instantaneous short-circuit trip unit                                | 115 ... 375 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 at 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                                                       | Screw-type terminals                         |
| tightening torque [lbf·in] for load-side outgoing feeder                                                          | 45 ... 45 lbf·in                             |
| type of connectable conductor cross-sections at 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 at 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 at AWG cables for auxiliary contacts single or multi-stranded                                    | 1x (12 AWG), 2x (16 ... 14 AWG), 2x (18 ... 16 AWG) |
| temperature of the conductor at contactor for auxiliary contacts maximum permissible                                                                       | 75 °C                                               |
| material of the conductor at contactor for auxiliary contacts                                                                                              | CU                                                  |
| type of electrical connection at overload relay for auxiliary contacts                                                                                     | Screw-type terminals                                |
| tightening torque [lbf-in] at overload relay for auxiliary contacts                                                                                        | 7 ... 10 lbf-in                                     |
| type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded                               | 2x (20 ... 14 AWG)                                  |
| temperature of the conductor at overload relay for auxiliary contacts maximum permissible                                                                  | 75 °C                                               |
| material of the conductor at overload relay for auxiliary contacts                                                                                         | CU                                                  |
| <b>Short-circuit current rating</b>                                                                                                                        |                                                     |
| design of the short-circuit trip                                                                                                                           | Instantaneous trip circuit breaker                  |
| breaking capacity maximum short-circuit current (Icu) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 V</li> </ul> | 100 kA<br>100 kA<br>25 kA                           |
| certificate of suitability                                                                                                                                 | NEMA ICS 2; UL 508; CSA 22.2, No.14                 |
| <b>Further information</b>                                                                                                                                 |                                                     |

**Industrial Controls - Product Overview (Catalogs, Brochures,...)**

[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18EUE92ND>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

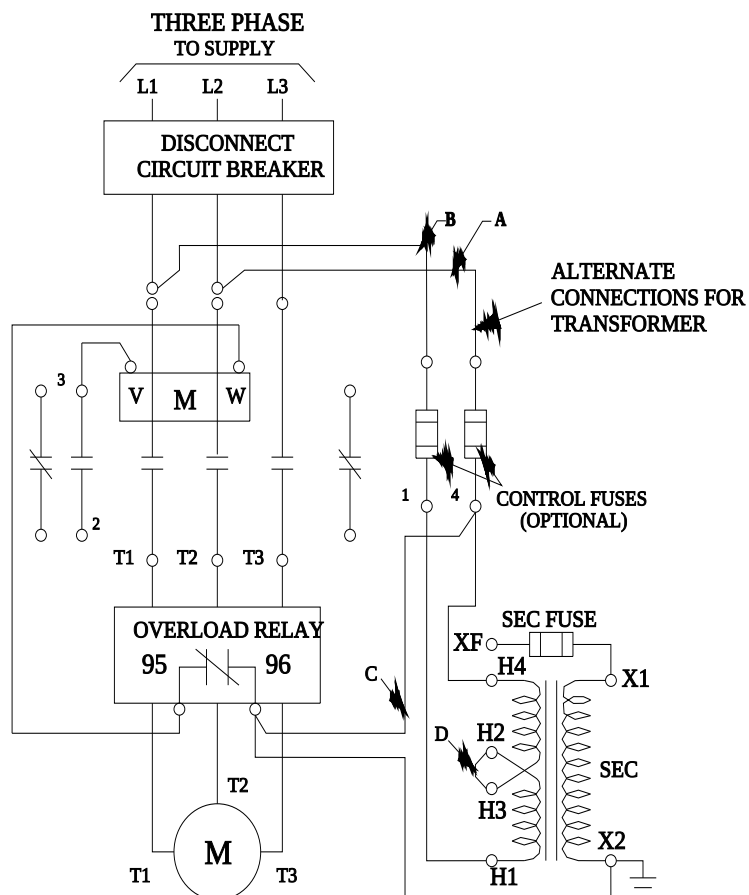
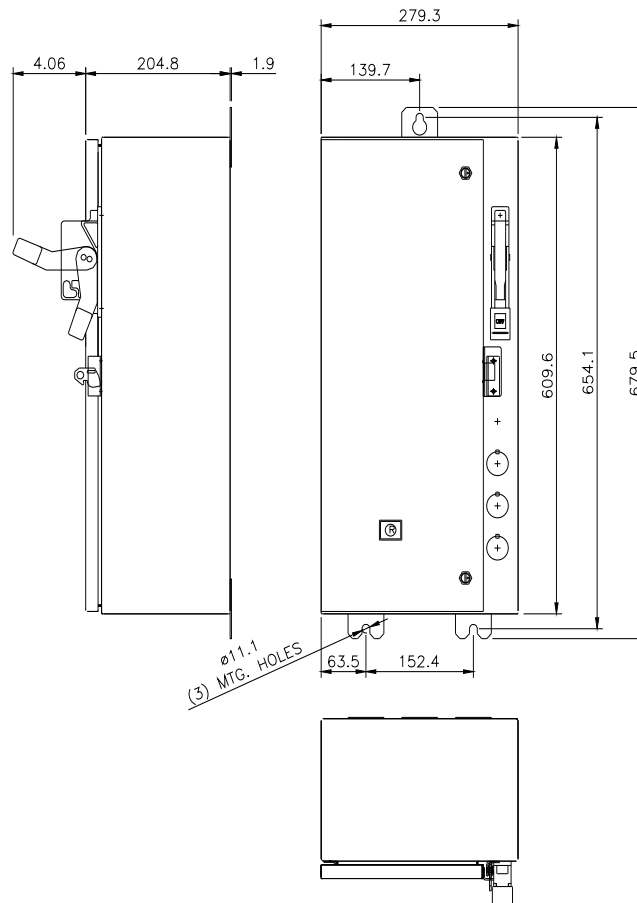
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**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:18EUE92ND&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18EUE92ND&lang=en)

**Certificates/approvals**

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