



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR relay amp range 25-100A, 110V 50HZ / 120V 60HZ coil, Combination type, 100A non-fusible disconnect, Encl. NEMA type 4X Fiberglass Water/dust tight noncorrosive, Standard width enclosure

|                                                                         |                                                                      |
|-------------------------------------------------------------------------|----------------------------------------------------------------------|
| product brand name                                                      | Class 17 & 25                                                        |
| design of the product                                                   | Full-voltage non-reversing motor starter with non-fusible disconnect |
| special product feature                                                 | ESP200 overload relay                                                |
| <b>General technical data</b>                                           |                                                                      |
| Height x Width x Depth [in]                                             | 24 × 24 × 7 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                                              | 20 hp                                                                |
| • at 220/230 V rated value                                              | 25 hp                                                                |
| • at 460/480 V rated value                                              | 50 hp                                                                |
| • at 575/600 V rated value                                              | 50 hp                                                                |
| <b>Contactors</b>                                                       |                                                                      |
| size of contactor                                                       | NEMA controller size 3                                               |
| number of NO contacts for main contacts                                 | 3                                                                    |
| operational current at AC at 600 V rated value                          | 90 A                                                                 |
| mechanical service life (operating cycles) of the main contacts typical | 5000000                                                              |
| <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), 2.5A@300VDC (Q300)                                |
| <b>Coil</b>                                                             |                                                                      |
| type of voltage of the control supply voltage                           | AC                                                                   |
| control supply voltage                                                  |                                                                      |
| • at AC at 50 Hz rated value                                            | 110 V                                                                |
| • at AC at 60 Hz rated value                                            | 120 V                                                                |
| holding power at AC minimum                                             | 14 W                                                                 |
| apparent pick-up power of magnet coil at AC                             | 310 VA                                                               |
| apparent holding power of magnet coil at AC                             | 26 VA                                                                |
| operating range factor control supply voltage rated value of            | 0.85 ... 1.1                                                         |

|                                                                                                                    |                                                |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| magnet coil                                                                                                        |                                                |
| percental drop-out voltage of magnet coil related to the input voltage                                             | 50 %                                           |
| ON-delay time                                                                                                      | 26 ... 41 ms                                   |
| OFF-delay time                                                                                                     | 14 ... 19 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                                | 25 ... 100 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                                             | 5                                              |
| insulation voltage (Ui)                                                                                            |                                                |
| • with single-phase operation at AC rated value                                                                    | 600 V                                          |
| • with multi-phase operation at AC rated value                                                                     | 300 V                                          |
| <b>Disconnect Switch</b>                                                                                           |                                                |
| response value of switch disconnecter                                                                              | 100                                            |
| design of fuse holder                                                                                              | non-fusible                                    |
| operating class of the fuse link                                                                                   | non-fusible                                    |
| <b>Enclosure</b>                                                                                                   |                                                |
| degree of protection NEMA rating of the enclosure                                                                  | NEMA 4X fiberglass enclosure                   |
| design of the housing                                                                                              | dustproof, waterproof & resistant to corrosion |
| <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                  | 1                                              |
| 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                                                           | 120 lbf-in                                     |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 1                                              |
| 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                | 2                                              |
| 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      | 1                                   |
| 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 for AWG cables for auxiliary contacts single or multi-stranded | 2                                   |
| 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 fuse link for short-circuit protection of the main circuit required                                             | 10                                  |
| certificate of suitability                                                                                                    | NEMA ICS 2; UL 508; CSA 22.2, No.14 |
| <b>Approvals Certificates</b>                                                                                                 |                                     |
| <b>Test Certificates</b>                                                                                                      |                                     |



#### Further information

**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=US2:17HUG92FF>

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

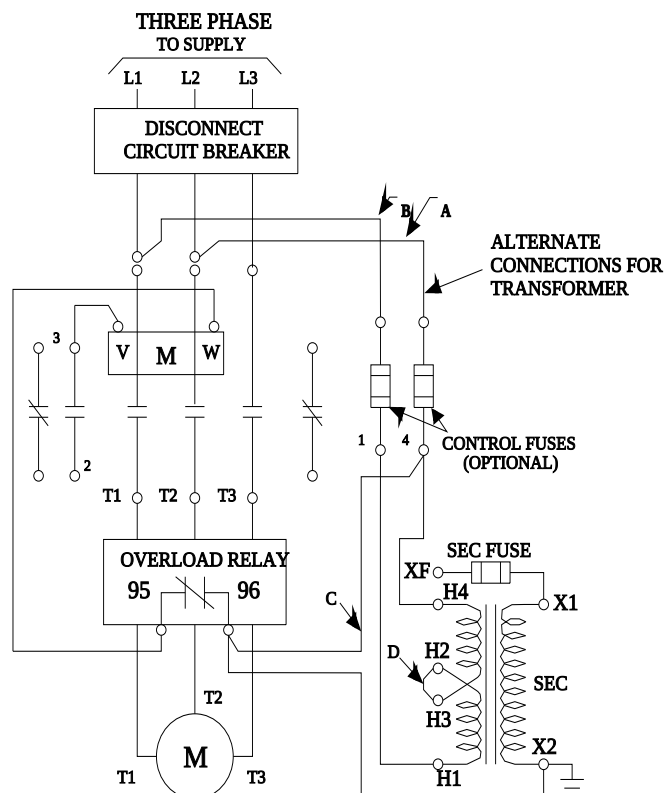
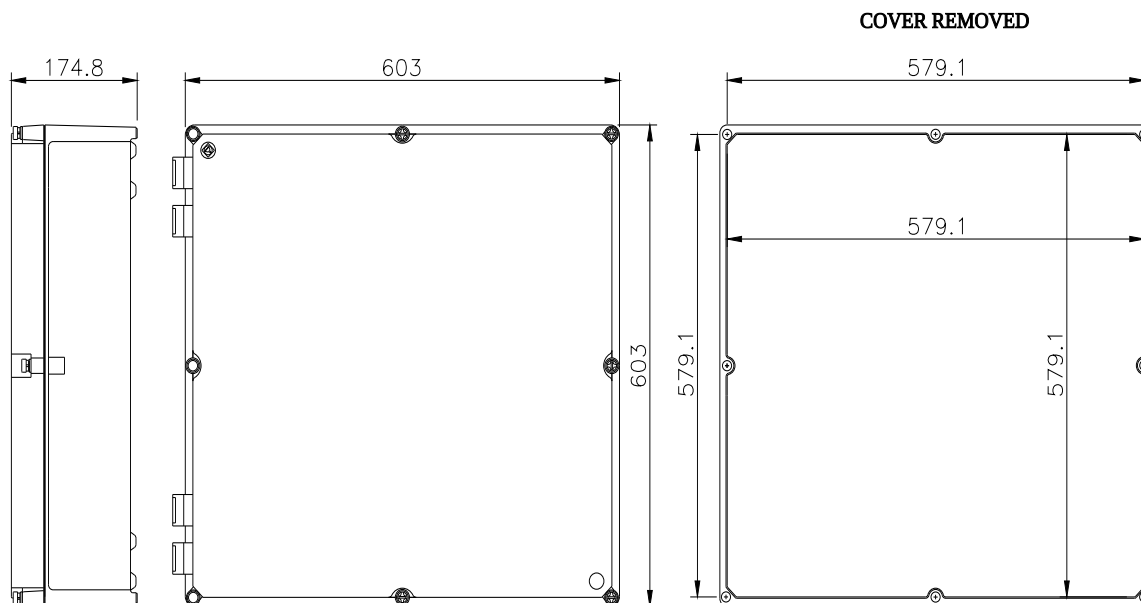
<https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG92FF>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:17HUG92FF&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17HUG92FF&lang=en)

**Certificates/approvals**

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