



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLRelay amp range 25-100A, 240V 50HZ / 277V 60HZ coil, Combination type, 100A non-fusible disconnect, Enclosure NEMA type 4/12, Water/dust tight for outdoors, 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; Half-size controller                          |
| <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   | 15 hp  |
| • at 220/230 V rated value   | 20 hp  |
| • at 460/480 V rated value   | 30 hp  |
| • at 575/600 V rated value   | 30 hp  |
| <b>Contactors</b>  |  |
| size of contactor  | Controller half size 2 1/2   |
| number of NO contacts for main contacts                                  | 3  |
| operational current at AC at 600 V rated value                           | 60 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), 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   | 240 V  |
| • at AC at 60 Hz rated value   | 277 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           | 50 %   |

|  |                                      |
|--|--------------------------------------|
| voltage  |                                      |
| 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                                      | 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>   |                                      |
| design of the housing  | dustproof, waterproof & weatherproof |
| <b>Mounting/wiring</b>   |                                      |
| mounting position  | vertical                             |
| fastening method   | Surface mounting and installation    |
| type of electrical connection for supply voltage line-side   | Box lug                              |
| tightening torque [lbf-in] for supply  | 120 ... 120 lbf-in                   |
| 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       | 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  | Screw-type terminals                 |

|   |                 |
|---|-----------------|
| contacts  |                 |
| 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              |

**Short-circuit current rating**

|   |                                     |
|---|-------------------------------------|
| 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 |

**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?mifb=US2:17GUG92NL>

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

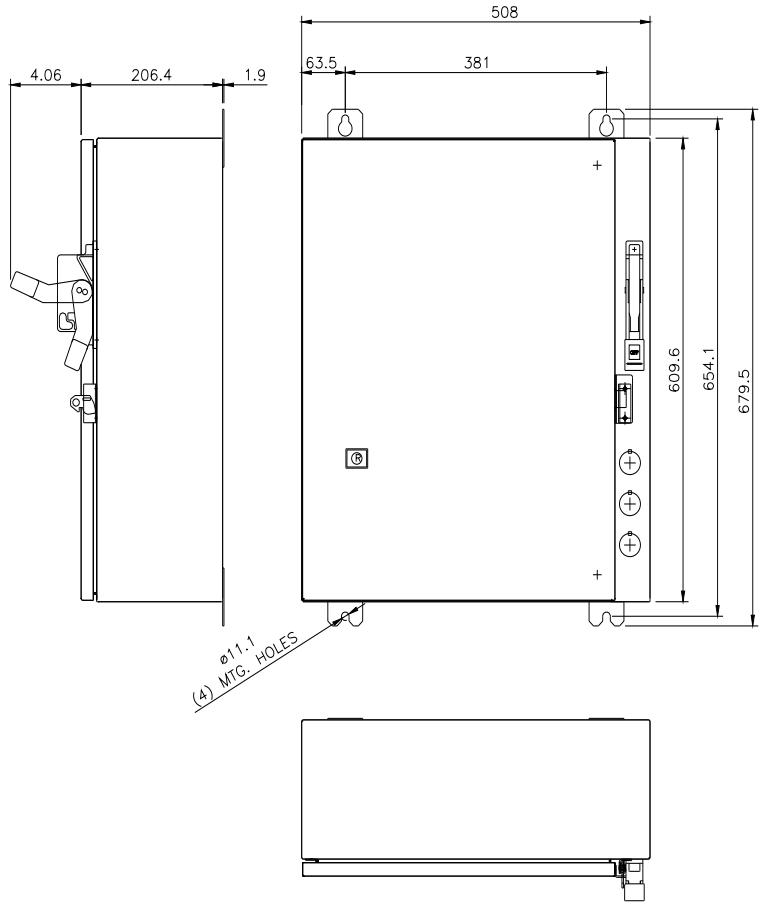
<https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG92NL>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mifb=US2:17GUG92NL&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mifb=US2:17GUG92NL&lang=en)

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG92NL/certificate>





D68782001

last modified:

12/3/2022