



Figure similar

Starter, Combo SZ3,25-100Amps,N4 Starter, Combo SZ3,25-100Amps,N4

|                                                                         |                                                                      |
|-------------------------------------------------------------------------|----------------------------------------------------------------------|
| 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 × 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                                              | 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 (switching 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), 5A@600VDC (P600)                                  |
| <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 V·A                                      |
| apparent holding power of magnet coil at AC                                                                       | 26 V·A                                       |
| 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 %                                         |
| switch 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                                            | 5A@600VAC (B600), 1A@250VDC (R300)           |
| insulation voltage                                                                                                |                                              |
| • 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                                                                             | 100A / 600V                                  |
| design of fuse holder                                                                                             | non-fusible                                  |
| operating class of the fuse link                                                                                  | non-fusible                                  |
| <b>Enclosure</b>                                                                                                  |                                              |
| degree of protection NEMA rating                                                                                  | 4X, 304 stainless steel                      |
| design of the housing                                                                                             | Dust-tight, watertight & corrosion resistant |
| <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                                                          | 120 ... 120 lbf·in                           |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded | 1x (14 ... 2/0 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 fuse link for short-circuit protection of the main circuit required                                            | 10kA@600V (Class H or K); 100kA@600V (Class R or J) |
| 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=US2:17HUG92XF>

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

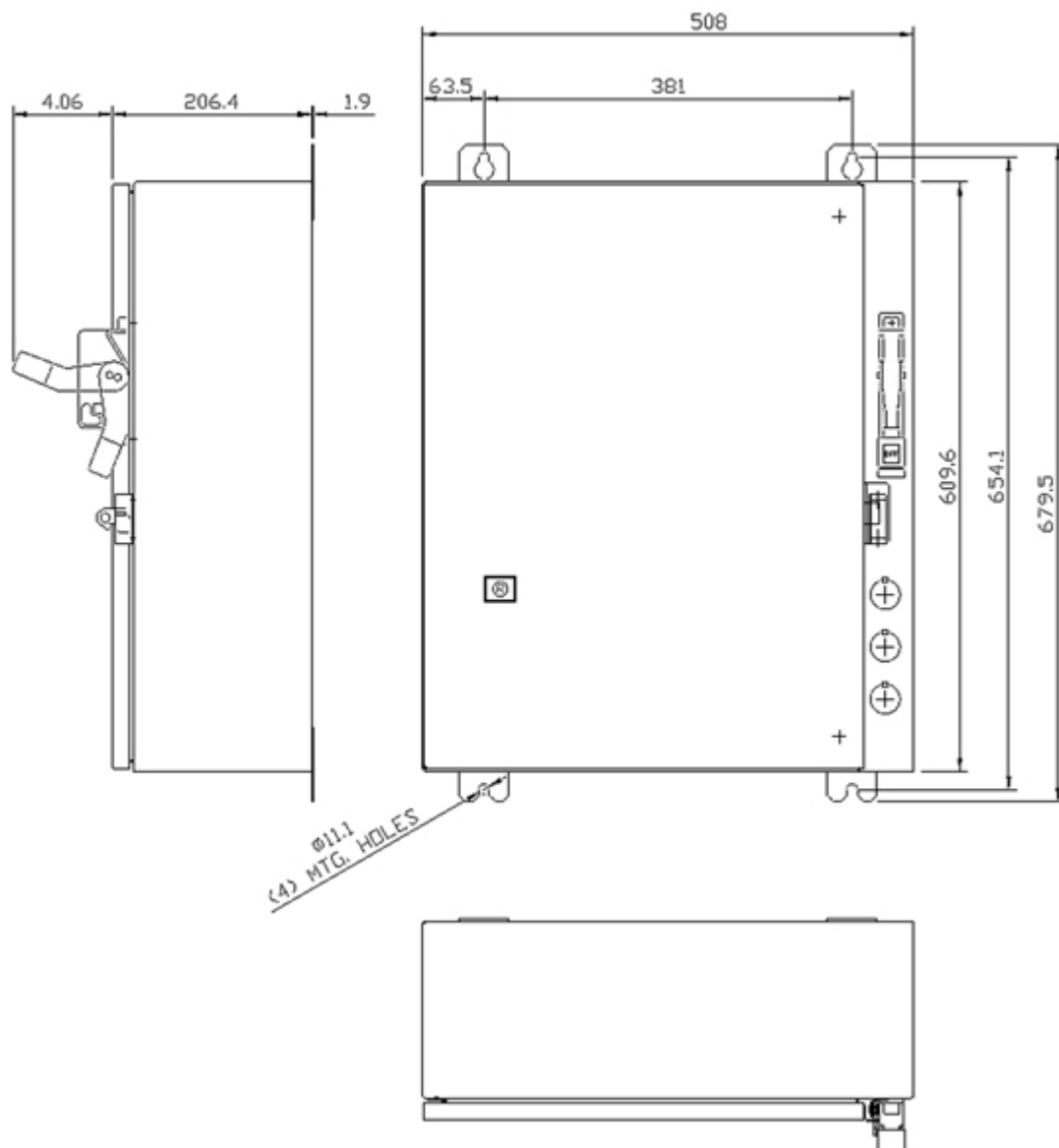
<https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG92XF>

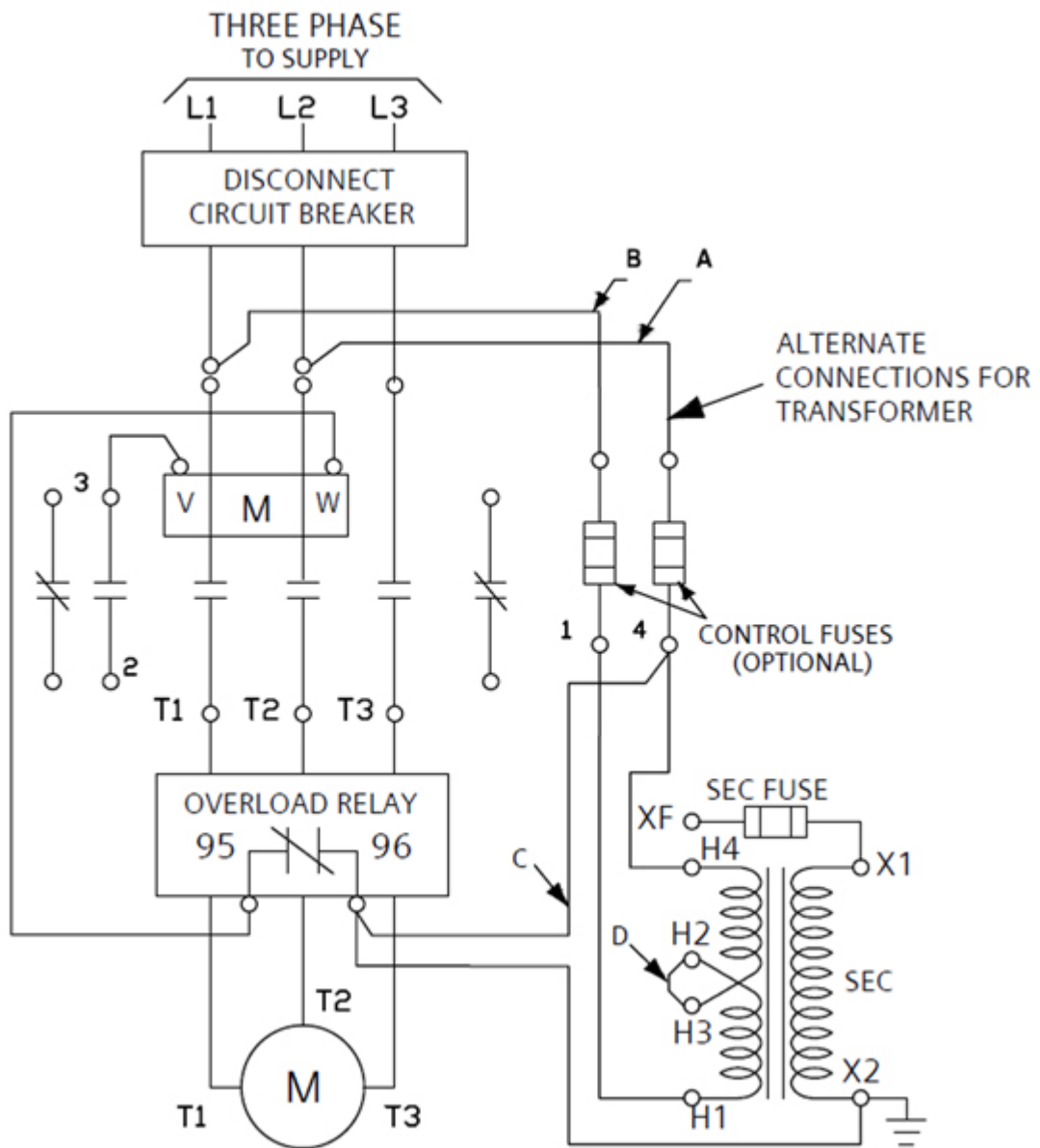
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:17HUG92XF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17HUG92XF&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:17HUG92XF/certificate>





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