

Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure



Figure similar

|                                                                         |                                          |
|-------------------------------------------------------------------------|------------------------------------------|
| product brand name                                                      | Class 14                                 |
| design of the product                                                   | Full-voltage non-reversing motor starter |
| special product feature                                                 | ESP200 overload relay; Half-size starter |
| <b>General technical data</b>                                           |                                          |
| weight [lb]                                                             | 13 lb                                    |
| Height x Width x Depth [in]                                             | 14 × 8 × 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                           |
| country of origin                                                       | USA                                      |
| <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                                        |
| operating voltage for main current circuit at AC at 60 Hz maximum       | 600 V                                    |
| 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), 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                                                                                      | 120 V                                |
| holding power at AC minimum                                                                                       | 8.6 W                                |
| apparent pick-up power of magnet coil at AC                                                                       | 218 V·A                              |
| apparent holding power of magnet coil at AC                                                                       | 25 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 %                                 |
| 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                         |
| tripping time at phase-loss 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>Enclosure</b>                                                                                                  |                                      |
| degree of protection NEMA rating                                                                                  | 1                                    |
| design of the housing                                                                                             | Indoor general purpose use           |
| <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                                                                             | 45 ... 45 lbf·in                     |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded                  | 1x(14 - 2 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 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                           | 2 x (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      | 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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 | 2 x (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                                                 |

#### Short-circuit current rating

|                                                                                                                                                            |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 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) |
| design of the short-circuit trip                                                                                                                           | Thermal magnetic 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> | 14 kA<br>10 kA<br>10 kA                             |
| 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?mlfb=US2:14GUG32BF>

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

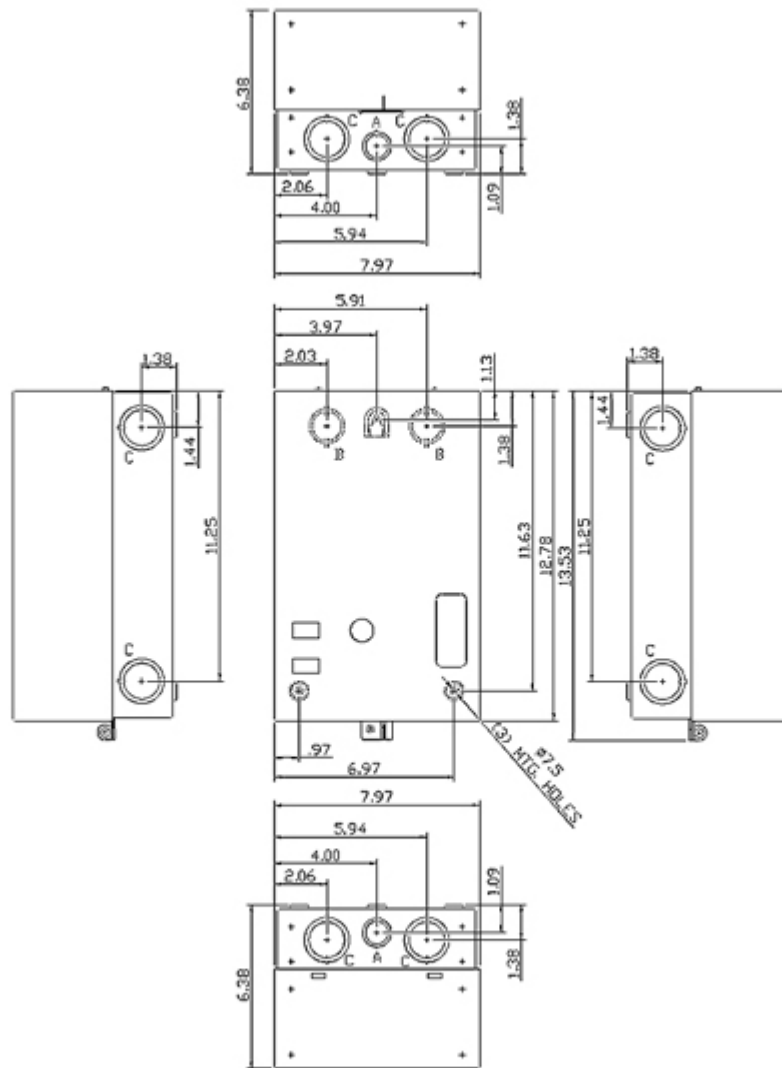
<https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG32BF>

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

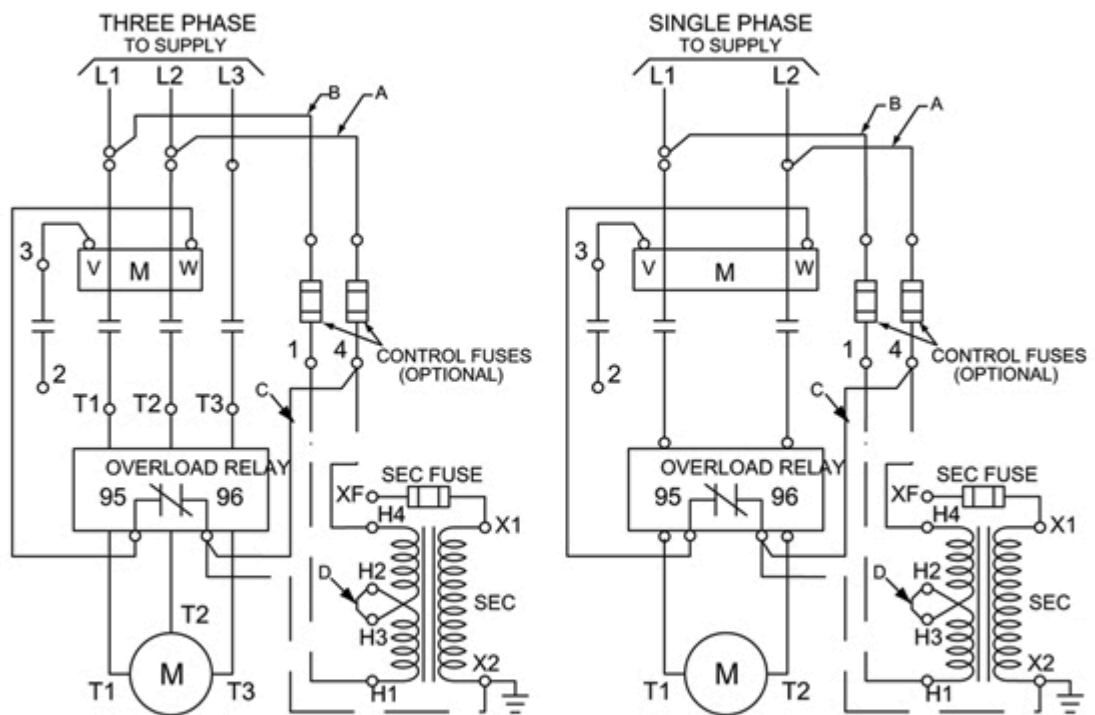
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14GUG32BF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14GUG32BF&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG32BF/certificate>



| LETTER | KNOCKOUT & CONDUIT SIZE               |
|--------|---------------------------------------|
| A      | Ø22.2 X Ø28.6 FOR 12.7 & 19 CONDUIT   |
| B      | Ø28.6 X Ø34.9 FOR 19 & 25.4 CONDUIT   |
| C      | Ø34.9 X Ø43.6 FOR 25.4 & 31.8 CONDUIT |



last modified:

4/27/2021 [🔗](#)