



Figure similar

Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Non-combination type, Enclosure type 7/9/3/4, Hazardous locations, Standard width enclosure

|   |   |
|---|---|
| product brand name  | Class 14  |
| design of the product   | Full-voltage non-reversing motor starter                    |
| special product feature   | ESP200 overload relay; Half-size starter; Dual voltage coil |
| <b>General technical data</b>   |   |
| weight [lb]   | 57 lb   |
| Height x Width x Depth [in]   | 17.75 × 14.69 × 10.38 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>Contactor</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  | 110 ... 240 V   |
| holding power at AC minimum   | 8.6 W   |
| apparent pick-up power of magnet coil at AC                             | 218 VA  |

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|---|--|
| 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   |
| percentual 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 (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  | 3, 4, 7, 9   |
| design of the housing   | Hazardous locations for indoor & outdoor use Class I Div. 1&2 Groups C&D, Class II Groups E,F&G, Class III |
| <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  | 75 °C  |

|  |                                     |
|--|-------------------------------------|
| maximum permissible  |                                     |
| 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                                  |
| <b>Short-circuit current rating</b>  |                                     |
| design of the fuse link for short-circuit protection of the main circuit required  | none                                |
| design of the short-circuit trip   | none                                |
| maximum short-circuit current breaking capacity (Icu)  |                                     |
| • at 240 V   | 0 kA                                |
| • at 480 V   | 0 kA                                |
| • at 600 V   | 0 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=US2:14GUG32HA>

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

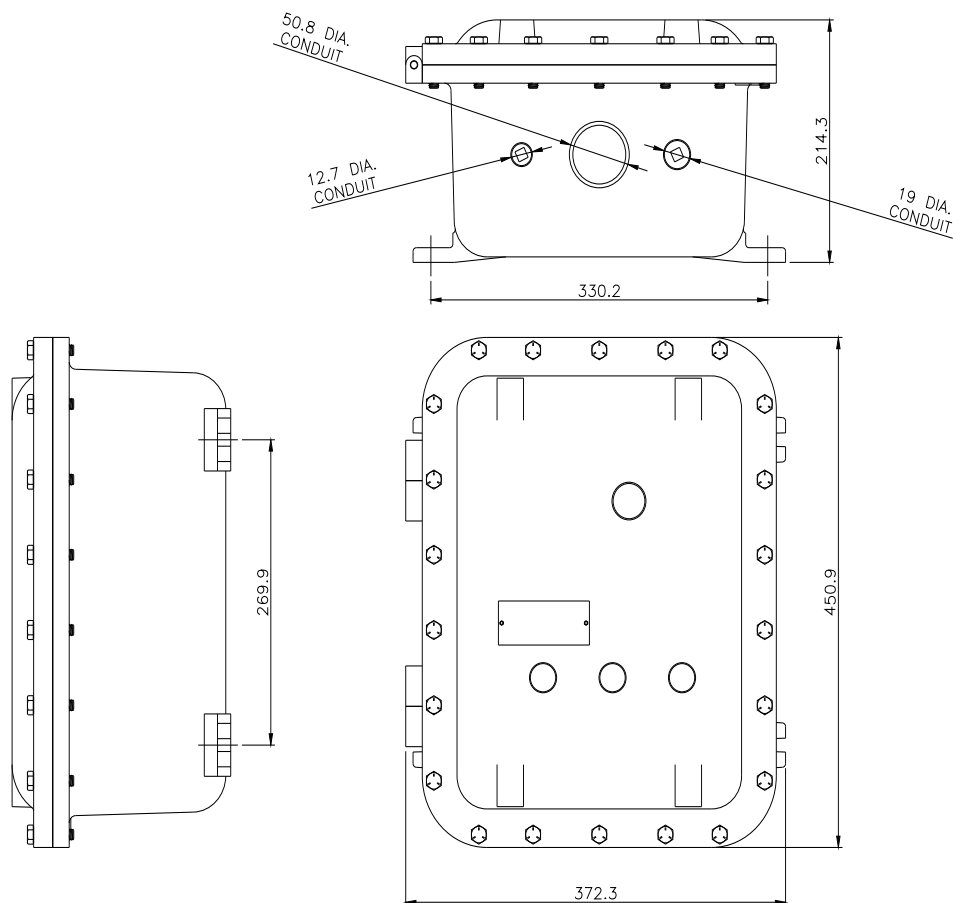
<https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG32HA>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:14GUG32HA&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14GUG32HA&lang=en)

**Certificates/approvals**

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