## **SIEMENS**

Data sheet US2:22HUG32AJ



Reversing motor starter Size 3 Three phase full voltage Solid-state overload relay OLRelay amp range 25-100A 24VAC 50-60HZ coil Non-combination type Enclosure type (open)

| product brand name  | Class 22                             |
|---|--------------------------------------|
| design of the product   | Full-voltage reversing motor starter |
| special product feature   | ESP200 overload relay                |
| General technical data  |                                      |
| weight [lb]   | 14 lb                                |
| Height x Width x Depth [in]   | 11.44 × 12.75 × 5.65 in              |
| touch protection against electrical shock                               | Not finger-safe                      |
| 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   |                                      |
| <ul> <li>during storage</li> </ul>                                      | -30 +65 °C                           |
| during operation  | -20 +40 °C                           |
| country of origin   | Mexico                               |
| Horsepower ratings  |                                      |
| yielded mechanical performance [hp] for 3-phase AC motor                |                                      |
| • at 200/208 V rated value  | 25 hp                                |
| • at 220/230 V rated value  | 30 hp                                |
| • at 460/480 V rated value  | 50 hp                                |
| • at 575/600 V rated value  | 50 hp                                |
| Contactor   |                                      |
| size of contactor   | NEMA controller size 3               |
| 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                          | 90 A                                 |
| mechanical service life (operating cycles) of the main contacts typical | 5000000                              |
| Auxiliary contact   |                                      |
| 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)  |
| Coil  |                                      |
| type of voltage of the control supply voltage                           | AC                                   |
| control supply voltage  |                                      |
| <ul> <li>at AC at 50 Hz rated value</li> </ul>                          | 24 V                                 |
| at AC at 60 Hz rated value  | 24 V                                 |
| holding power at AC minimum   | 14 W                                 |
| apparent pick-up power of magnet coil at AC                             | 310 VA                               |

| annount holding pourse of manual of 1 of A O  | 26.1/4  |
|---|---|
| apparent holding power of magnet coil at AC   | 26 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 voltage  | 50 %  |
| ON-delay time   | 26 41 ms  |
| OFF-delay time  | 14 19 ms  |
| Overload relay  |   |
| product function  |   |
| <ul> <li>overload protection</li> </ul>   | Yes   |
| phase failure detection   | Yes   |
| <ul> <li>asymmetry detection</li> </ul>   | Yes   |
| ground fault detection  | Yes   |
| • test function   | Yes   |
| external reset  | No  |
| reset function  | Manual, automatic and remote  |
| trip class  | CLASS 5 / 10 / 20 (factory set) / 30  |
| adjustable current response value current of the current-<br>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 (Ui)   |   |
| with single-phase operation at AC rated value   | 600 V   |
| with multi-phase operation at AC rated value  | 300 V   |
| Enclosure   |   |
| degree of protection NEMA rating  | Open device (no enclosure)  |
| design of the housing   | NA .  |
| Mounting/wiring   |   |
| mounting position   | Vertical  |
|   | VOLUCAL   |
| fastening method  | Surface mounting and installation   |
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| fastening method type of electrical connection for supply voltage line-side   |   |
| fastening method  | Surface mounting and installation  Box lug  |
| fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for   | Surface mounting and installation  Box lug  120 120 lbf-in  |
| fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded   | Surface mounting and installation  Box lug  120 120 lbf·in  1x (14 2/0 AWG)   |
| fastening method type of electrical connection for supply voltage line-side tightening torque [libf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible  | Surface mounting and installation  Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  |
| fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply  | Surface mounting and installation  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  |
| fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder  | Surface mounting and installation  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug   |
| fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  | Surface mounting and installation  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in   |
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| fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for   | Surface mounting and installation  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  |
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| fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible   | Surface mounting and installation  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C                           |
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| 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 | 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                                  |
| Short-circuit current rating  |                                     |
| 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 |
| Further information   |                                     |

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22HUG32AJ

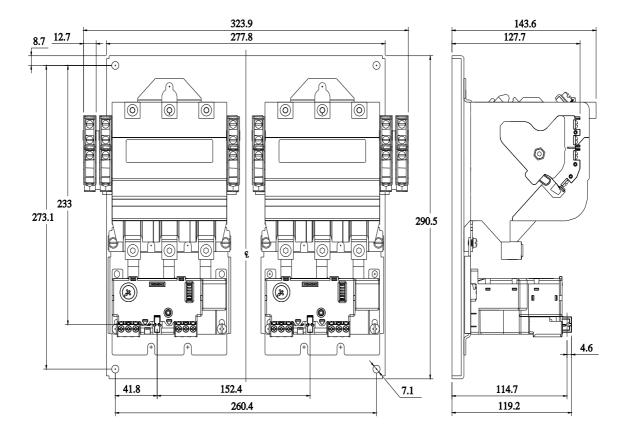
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

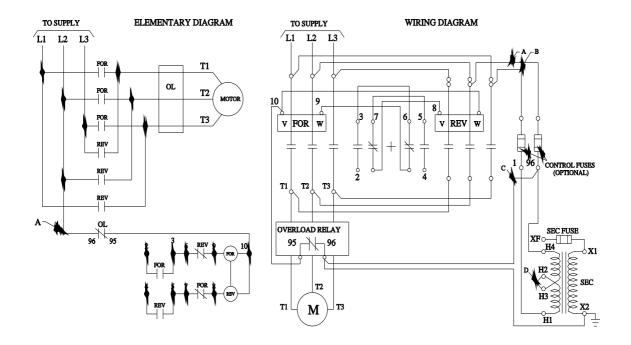
https://support.industry.siemens.com/cs/US/en/ps/US2:22HUG32A.

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22HUG32AJ&lang=en

Certificates/approvals

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