## **SIEMENS**

Data sheet US2:14HUG320H

Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLRelay amp range 25-100A, 380 440/440 480V 50/60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Standard width enclosure



Figure similar

| General technical data                                       |                            |
|--|----------------------------|
| Weight [lb]  | 33 lb                      |
| Height x Width x Depth [in]                                  | 26 × 13 × 8 in             |
| 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                |
| Ambient temperature [°F] during operation                    | -4 +104 °F                 |
| Ambient temperature during storage                           | -30 +65 °C                 |
| Ambient temperature during operation                         | -20 +40 °C                 |
| Country of origin  | USA                        |

| Horsepower ratings                                  |       |
|---|-------|
| Yielded mechanical performance [hp] for three-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  |                                      |
| Number of NO contacts for main contacts                                  | 3                                    |
| Operating voltage for main current circuit at AC at 60 Hz maximum        | 600 V                                |
| Operating current at AC at 600 V rated value                             | 90 A                                 |
| Mechanical service life (switching 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   |                                      |
| at DC rated value  | 0 0 V                                |
| • at AC at 60 Hz rated value   | 440 480 V                            |
| • at AC at 50 Hz rated value   | 380 440 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                             |
| Overload relay   |                                      |
| Product function   |                                      |
| Overload protection  | Yes                                  |
| Phase failure detection  | Yes                                  |
| Phase unbalance  | 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 pick-up value current of the current-                  | 25 100 A                           |
|---|------------------------------------|
| dependent overload release  |                                    |
| Trip time at phase-loss maximum                                   | 3 s                                |
| Relative repeat accuracy  | 1 %                                |
| Product feature Protective coating on printed-circuit             | Yes                                |
| board   |                                    |
| Number of NC contacts of auxiliary contacts of                    | 1                                  |
| overload relay  |                                    |
| Number of NO contacts of auxiliary contacts of                    | 1                                  |
| overload relay  |                                    |
| Operating 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            | 5A@600VAC (B600), 1A@250VDC (R300) |
| according to UL   |                                    |
| Insulation voltage  |                                    |
| <ul> <li>with single-phase operation at AC rated value</li> </ul> | 600 V                              |
| <ul> <li>with multi-phase operation at AC rated value</li> </ul>  | 300 V                              |
|   |                                    |
| Enclosure   |                                    |
|   |                                    |
| Degree of protection NEMA rating of the enclosure                 | NEMA Type 12                       |

| Mounting/wiring   |                                   |
|---|-----------------------------------|
| Mounting position   | Vertical                          |
| (mounting type)   | Surface mounting and installation |
| Type of electrical connection for supply voltage line-<br>side  | Box lug                           |
| Tightening torque [lbf·in] for supply   | 120 120 lbf·in                    |
| Type of connectable conductor cross-sections at line-<br>side at AWG conductors single or multi-stranded              | 1x(14 - 2/0 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  | 120 120 lbf·in                    |
| Type of connectable conductor cross-sections at AWG conductors 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 conductors 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 conductors 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 conductors 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 | 10kA@600V (Class H or K); 100kA@600V (Class R or J) |
| the main circuit required                               |   |
| Design of the short-circuit trip                        | Thermal magnetic circuit breaker                    |
| Maximum short-circuit current breaking capacity (Icu)   |   |
| ● at 240 V  | 14 kA   |
| ● at 480 V  | 10 kA   |
| ● at 600 V  | 10 kA   |

## 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=US2:14HUG320H

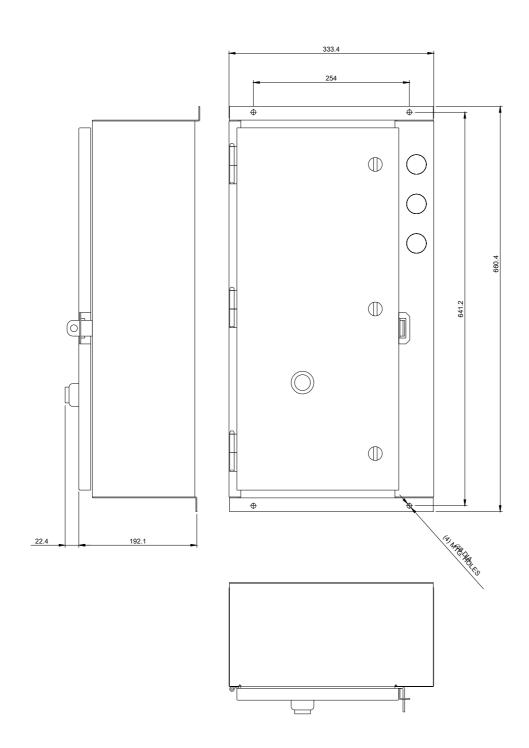
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG320H

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14HUG320H&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14HUG320H&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG320H/certificate





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