SIEMENS

Data sheet US2:14HUG32AE



Non-reversing motor starter Size 3 Three phase full voltage Solid-state overload relay OLRelay amp range 25-100A 550/575-600 50/60HZ coil Combination type No enclosure

Figure similar

| design of the product special product feature ESP200 overload relay General technical data weight [[b] | product brand name | Class 14 | |
|--|--|--|--|
| Seneral technical data weight [lb] 8 lb | design of the product | Full-voltage non-reversing motor starter | |
| Height x Width x Depth [in] 9,78 × 6,75 × 5,19 in | special product feature | ESP200 overload relay | |
| Height x Width x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature ['F] • during storage • during operation ambient temperature • during storage • during storage • during operation -20 +40 °F • during operation -20 +65 °C • during operation -20 +40 °C country of origin Mexico Mexico Mexico Mexico ### Tourney of the first or a single firs | General technical data | | |
| installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during operation ambient temperature • during storage • during operation | weight [lb] | 8 lb | |
| installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage • during operation • during operation • during operation • during operation • during operation • during operation • during operation • during operation • 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 • at 220/230 V rated value • at 460/480 V rated value • at 467/8600 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value nechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts num | Height x Width x Depth [in] | 9.78 × 6.75 × 5.19 in | |
| ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during operation • during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 57/600 V rated value • at 57/600 V rated value • at 57/600 V rated value operating voltage for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational value at 200/200 V rated value operational value at 200/200 V rated value operational value at 200/200 V rated value oper | touch protection against electrical shock | Not finger-safe | |
| during storage during operation during operation during storage during operation 20 +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 at 220/230 V rated value 50 hp at 575/600 V rated value 50 hp at 575/600 V rated value 50 hp Contactor size of contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operatincal service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of Not contacts at contactor for auxiliary contacts number of Not contacts at contactor for auxiliary contacts number of Not contacts at contactor for auxiliary contacts number of vot contacts at contactor for auxiliary contacts number of vot contacts at contactor for auxiliary contacts number of vot contacts at contactor for auxiliary contacts number of vot contacts at contactor for auxiliary contacts number of vot contacts at contactor for auxiliary contacts number of vot contacts at contactor for auxiliary contacts number of votage of the control supply voltage | installation altitude [ft] at height above sea level maximum | 6560 ft | |
| during operation ambient temperature during storage during operation during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 200/230 V rated value at 460/480 V rated value at 457/600 V rated value at 457/600 V rated value size of contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 4. 4 +104 °F Ab 0 C Ac +40 °C Ab 0° C Mexico NEMA controller size 3 600 V | ambient temperature [°F] | | |
| ambient temperature • during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 50 hp • at 575/600 V rated value Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contacts maximum 7 contact rating of auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC | during storage | -22 +149 °F | |
| • during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 85/5600 V rated value 50 hp Contactor size of contactor number of NO contacts for main contacts a operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC | during operation | -4 +104 °F | |
| ountry of origin Mexico Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor o at 200/208 V rated value o at 220/230 V rated value o at 460/480 V rated value o at 575/600 V rated value o at 75/600 V rated value o at 75/600 V rated value o at 75/600 V rated value operating voltage for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operating voltage for main cyrent circuit at AC at 60 Hz maximum operating voltage for main cyrent circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC | ambient temperature | | |
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| yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • 50 hp • at 575/600 V rated value Size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC | country of origin | Mexico | |
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| otatactor size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage NEMA controller size 3 3 600 V 6000 V 5000000 000000 1000000 10000000 100000000 | • at 220/230 V rated value | 30 hp | |
| size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rootact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage NEMA controller size 3 NEMA controller size 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • at 460/480 V rated value | 50 hp | |
| size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage NEMA controller size 3 3 600 V 600 V 7 5000000 5000000 5000000 5000000 5000000 | at 575/600 V rated value | 50 hp | |
| number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 3 600 V 6000 | Contactor | | |
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| maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 90 A 5000000 5000000 1000000 1000000 100000000 | number of NO contacts for main contacts | 3 | |
| mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 5000000 7 10A@600VAC (A600), 5A@600VDC (P600) | | 600 V | |
| contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC | operational current at AC at 600 V rated value | 90 A | |
| number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage O 10A@600VAC (A600), 5A@600VDC (P600) | · · · · · · · · · · · · · · · · · · · | 5000000 | |
| number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 1 10A@600VAC (A600), 5A@600VDC (P600) AC | Auxiliary contact | | |
| number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 7 10A@600VAC (A600), 5A@600VDC (P600) 10A@600VAC (A600), 5A@600VDC (P600) | number of NC contacts at contactor for auxiliary contacts | 0 | |
| contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 10A@600VAC (A600), 5A@600VDC (P600) AC | number of NO contacts at contactor for auxiliary contacts | 1 | |
| to UL Coil type of voltage of the control supply voltage AC | number of total auxiliary contacts maximum | 7 | |
| type of voltage of the control supply voltage AC | | 10A@600VAC (A600), 5A@600VDC (P600) | |
| 7) | Coil | | |
| control supply voltage | type of voltage of the control supply voltage | AC | |
| | control supply voltage | | |

| at AC at 50 Hz rated value | 550 V |
|---|--------------------------------------|
| at AC at 30 Hz rated value at AC at 60 Hz rated value | 575 600 V |
| holding power at AC minimum | 14 W |
| apparent pick-up power of magnet coil at AC | 310 VA |
| 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 | |
| overload protection | Yes |
| phase failure detection | Yes |
| asymmetry detection | 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- 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 |
| Enclosure | |
| degree of protection NEMA rating | Open device (no enclosure) |
| design of the housing | NA |
| Mounting/wiring | |
| 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 |
| type of connectable conductor cross-sections at line-side at AWG cables 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 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 | 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) | |
| • at 240 V | 14 kA |
| ● at 480 V | 10 kA |
| ● at 600 V | 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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14HUG32AE

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG32AE

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HUG32AE&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG32AE/certificate

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