SIEMENS

Data sheet

US2:14IUH32AF



Non-reversing motor starter Size 3 1/2 Three phase full voltage Solid-state overload relay OLRelay amp range 50-200A 110VAC 50HZ / 120VAC 60HZ coil Combination type No enclosure

| Figure | simi | ar |
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| product brand name | Class 14 |
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| design of the product | Full-voltage non-reversing motor starter |
| special product feature | ESP200 overload relay; Half-size starter |
| General technical data | |
| weight [lb] | 8 lb |
| Height x Width x Depth [in] | 9.78 × 6.75 × 5.19 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 | |
| during storage | -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 | 30 hp |
| • at 220/230 V rated value | 40 hp |
| • at 460/480 V rated value | 75 hp |
| • at 575/600 V rated value | 75 hp |
| Contactor | |
| size of contactor | Controller half size 3 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 | 115 A |
| mechanical service life (switching cycles) of the main contacts typical | 500000 |
| 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 | |

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| Index power of magnet coll at AC 310 VA apparent poli-virg power of magnet coll at AC 310 VA apparent poli-virg power of magnet coll at AC 310 VA apparent poli-virg parent and walke 0.85 1.1 Derivating and factor control supply voltage rade value 0.85 1.1 Operating parent poli-virg paren | at AC at 50 Hz rated value | 110 V |
| apparent plak-up power of magnet coil at AC 310 VA apparent holding power of magnet coil at AC 26 VA operating range factor corrols supply voltage rated value of magnet coil 0.85 1.1 presential drop-out voltage of magnet coil related to the imput voltage OFF-delay time 26 41 ms OFF-delay time 26 41 ms Overdoad protection Yes • provided protection Yes • apprint y delaction Yes • apprint y delaction Yes • apprint y delaction Yes • existing range CLASS 5 / 10 / 20 (factory set) / 30 • existing range CLASS 5 / 10 / 20 (factory set) / 30 • existing range voltage voltage or voltage | | |
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| Overload relay Yes product function Yes • overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset No adjustable current response value current of the current- dependent overload relases CLASS 5/ 10/ 20 (factory set) / 30 adjustable current response value current of the current- dependent overload relases 1% tread/user protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay eact of auxiliary contacts of overload relay eact Act a 600 V 5 A orthet rating of auxiliary contacts of overload relay exorting to U 5A orthet rating of auxiliary contacts of overload relay exorting to U 5A instation votage (U) 600 V with multi-phase operation at AC rated value 600 V with multi-phase operation at AC rated value 76 °C mounting position Surface mounting and installation Mounting/Winfig 76 °C mounting position Surface mounting and installation Moye of electrical conne | ON-delay time | 26 41 ms |
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| mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder120 120 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder120 120 lbf-intype of connectable conductor for load-side outgoing feeder1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctype of electrical connection of magnet coilscrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG) | 5 5 | |
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| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feederBox lugtype of connectable conductor rorss-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder120 120 lbf·intemperature of the conductor for load-side outgoing feeder maximum permissible1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissibleAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG) | | 0 |
| temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder stingle or multi- stranded1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilscrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG) | type of connectable conductor cross-sections at line-side | |
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| type of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilAL or CUtype of electrical connection of magnet coil5 12 lbf·intightening torque [lbf·in] at magnet coil2 x (16 - 12 AWG) | | AL or CU |
| tightening torque [lbf·in] for load-side outgoing feeder120 120 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2/0 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilAL or CUtightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG) | | |
| 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 2 x (16 - 12 AWG) | | 0 |
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| type of electrical connection of magnet coilscrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG) | material of the conductor for load-side outgoing feeder | AL or CU |
| tightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG) | | screw-type terminals |
| type of connectable conductor cross-sections of magnet 2 x (16 - 12 AWG) | | 5 12 lbf·in |
| | | 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=US2:14IUH32AF | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH32AF | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14IUH32AF⟨=en | | | |
| Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:14IUI | https://support.industry.siemens.com/cs/US/en/ps/US2:14IUH32AF/certificate | | |

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