SIEMENS

Data sheet

US2:22HUG32BF



Reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

| 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] | 39 lb |
| Height x Width x Depth [in] | 25 × 14 × 9 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 |
| 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 | 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 | |
| • at AC at 50 Hz rated value | 110 V |
| • at AC at 60 Hz rated value | 120 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 | 0.85 1.1 |
| magnet coil | |
| 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 | 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 |
| 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 |
| with multi-phase operation at AC rated value Enclosure | 300 V |
| | 300 V indoors, usable on a general basis |
| Enclosure | |
| Enclosure design of the housing | |
| Enclosure design of the housing Mounting/wiring | indoors, usable on a general basis |
| Enclosure design of the housing Mounting/wiring mounting position | indoors, usable on a general basis Vertical |
| Enclosure design of the housing Mounting/wiring mounting position fastening method | indoors, usable on a general basis Vertical Surface mounting and installation |
| Enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side | indoors, usable on a general basis Vertical Surface mounting and installation Box lug |
| Enclosure design of the housing Mounting/wiring mounting position 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 | indoors, usable on a general basis Vertical Surface mounting and installation Box lug 120 120 lbf-in |
| Enclosure design of the housing Mounting/wiring mounting position 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 | indoors, usable on a general basis Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 2/0 AWG) |
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| Enclosure design of the housing Mounting/wiring mounting position 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 | indoors, usable on a general basis Vertical 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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| 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=US2:22HUG32BF

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

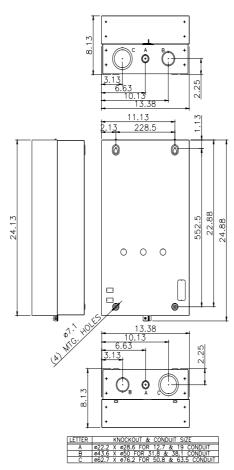
https://support.industry.siemens.com/cs/US/en/ps/US2:22HUG32BF

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22HUG32BF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22HUG32BF/certificate





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