SIEMENS

Data sheet US2:22CUD32FL



Reversing motor starter, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 240V 50Hz / 277V 60Hz coil, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

Figure similar

| 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] | 17 lb |
| Height x Width x Depth [in] | 24 × 15 × 7 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 | 3 hp |
| at 220/230 V rated value | 3 hp |
| • at 460/480 V rated value | 0 hp |
| • at 575/600 V rated value | 0 hp |
| Contactor | |
| size of contactor | NEMA controller size 0 |
| 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 | 18 A |
| mechanical service life (switching cycles) of the main contacts typical | 10000000 |
| 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 | 8 |
| 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 at AC at 60 Hz rated value holding power at AC minimum apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time Overload relay | |
|---|--|
| holding power at AC minimum apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time 8.6 W 218 VA 0.85 1.1 50 % 10 29 ms | |
| apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time 218 VA 0.85 1.1 50 % 19 29 ms 10 24 ms | |
| apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time 25 VA 0.85 1.1 50 % 19 29 ms 10 24 ms | |
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| input voltage ON-delay time OFF-delay time 19 29 ms 10 24 ms | |
| OFF-delay time 10 24 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 5.5 22 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 | |
| number of NO contacts of auxiliary contacts of overload relay | |
| 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 4X, fiber glass | |
| design of the housing dustproof, waterproof & resistant to corrosion | |
| Mounting/wiring | |
| mounting position Vertical | |
| fastening method Surface mounting and installation | |
| type of electrical connection for supply voltage line-side Screw-type terminals | |
| tightening torque [lbf-in] for supply 20 20 lbf-in | |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded 1x (14 2 AWG) | |
| temperature of the conductor for supply maximum 75 °C permissible | |
| material of the conductor for supply AL or CU | |
| type of electrical connection for load-side outgoing feeder Screw-type terminals | |
| tightening torque [lbf-in] for load-side outgoing feeder 20 20 lbf-in | |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2 AWG) 1x (14 2 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 | |
| agricining torque [ibi iii] at magnet coil 5 12 ibi iii | |

| coil at AWG cables single or multi-stranded | |
|--|---|
| 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 | 1x (12 AWG), 2x (16 14 AWG), 2x (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 | 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 | 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=US2:22CUD32FL

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32FL

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22CUD32FL&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32FL/certificate

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