SIEMENS

Data sheet US2:84CUA95EMF



Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 110V 50Hz / 120V 60Hz coil, Combination type, Two 3A circuit breakers, Enc NEMA type 4 painted steel, Water/dust tight for outdoors

| product brand name | Class 84 | |
|---|--|--|
| design of the product | Duplex controller with two MCPs without alternator | |
| special product feature | ESP200 overload relay | |
| General technical data | | |
| weight [lb] | 70 lb | |
| Height x Width x Depth [in] | 34 × 25 × 8 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 | 0.17 hp | |
| • at 220/230 V rated value | 0.17 hp | |
| at 460/480 V rated value | 0.33 hp | |
| at 575/600 V rated value | 0.5 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 (operating 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 DC rated value | 0 0 V | |
| • at AC at 50 Hz rated value | 110 110 V | |
| at AC at 60 Hz rated value | 120 120 V | |
| holding power at AC minimum | 8.6 W | |

| 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 Overload relay product function overload protection pagnet coil at AC 25 VA 0.85 1.1 50 % voltage 19 29 ms 10 24 ms Overload relay product function overload protection yes yes | |
|--|---|
| 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 19 29 ms OFF-delay time 10 24 ms Overload relay product function • overload protection • overload protection • overload protection | |
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| voltage ON-delay time 19 29 ms OFF-delay time 10 24 ms Overload relay product function • overload protection Yes | |
| OFF-delay time 10 24 ms Overload relay product function • overload protection Yes | |
| Overload relay product function • overload protection Yes | |
| product function | |
| overload protection Yes | |
| | |
| phase failure detection Yes | |
| | |
| asymmetry detection Yes | |
| • ground fault detection Yes | |
| • test function Yes | |
| • external reset | |
| 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 0.25 1 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 | |
| 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 with multi-phase operation at AC rated value 300 V | |
| Enclosure | _ |
| degree of protection NEMA rating of the enclosure NEMA Type 4 | |
| design of the housing dustproof, waterproof & weatherproof | |
| Circuit Breaker | _ |
| | |
| type of the motor protection Motor circuit protector (magnetic trip only) | |
| operational current of motor circuit breaker rated value 3 A | |
| adjustable current response value current of instantaneous short-circuit trip unit | |
| Mounting/wiring V. C. | |
| mounting position Vertical | |
| fastening method Surface mounting and installation | |
| type of electrical connection for supply voltage line-side Box lug type of connectable conductor cross-sections at line-side for 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) | |
| AWG cables single or multi-stranded | |
| 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 Screw-type terminals | |
| tightening torque [lbf-in] for load-side outgoing feeder 20 24 lbf-in | |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | |
| temperature of the conductor for load-side outgoing feeder maximum permissible 75 °C | |
| material of the conductor for load-side outgoing feeder 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 for AWG cables single or multi-stranded | |
| temperature of the conductor at magnet coil maximum 75 °C permissible | |
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| type of electrical connection at contactor 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 for 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 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 short-circuit trip | Instantaneous trip circuit breaker |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 100 kA |
| • at 480 V | 100 kA |
| • at 600 V | 25 kA |
| certificate of suitability | NEMA ICS 2; UL 508; CSA 22.2, No.14 |
| Further information | |

Industrial Controls - Product Overview (Catalogs, Brochures,...)

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84CUA95EMF

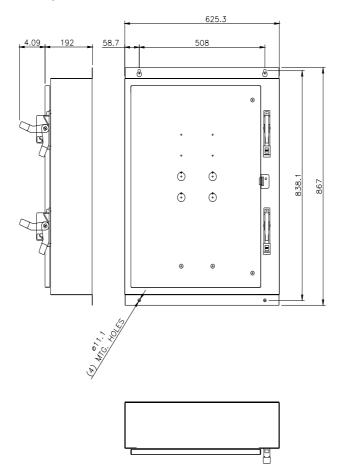
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA95EMF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84CUA95EMF&lang=en

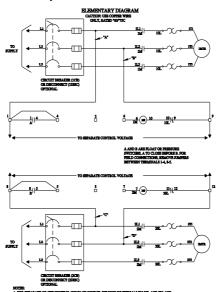
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84CUA95EMF/certificate



SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Manual Alternation Size 0-4



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