SIEMENS

Data sheet US2:83CUC950G



Duplex starter w/o alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 190-220/220-240V 50/60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors

| product brand name | Class 83 |
|---|--------------------------------------|
| design of the product | Duplex controller without alternator |
| special product feature | ESP200 overload relay |
| General technical data | |
| weight [lb] | 40 lb |
| Height x Width x Depth [in] | 20 × 16 × 6 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 | 2 hp |
| • at 220/230 V rated value | 2 hp |
| • at 460/480 V rated value | 5 hp |
| ● at 575/600 V rated value | 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 | 1000000 |
| 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 | 190 220 V |
| at AC at 60 Hz rated value | 220 240 V |
| holding power at AC minimum | 8.6 W |

| apparent pick up never of recent as it at A.C. | 210.1/A |
|--|--|
| apparent holding power of magnet coil at AC | 218 VA 25 VA |
| apparent holding power of magnet coil at AC 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 | 19 29 ms |
| OFF-delay time | 10 24 ms |
| Overload relay | 10 21 1110 |
| 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 |
| adjustable current response value current of the current- dependent overload release | 3 12 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 |
| with multi-phase operation at AC rated value Enclosure | 300 V |
| · · · · · · | NEMA 12 enclosure |
| degree of protection NEMA rating of the enclosure design of the housing | |
| Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring | NEMA 12 enclosure dustproof and drip-proof for indoor use |
| Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position | NEMA 12 enclosure dustproof and drip-proof for indoor use Vertical |
| degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method | NEMA 12 enclosure dustproof and drip-proof for indoor use Vertical Surface mounting and installation |
| degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side | NEMA 12 enclosure dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals |
| degree of protection NEMA rating of the 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 | NEMA 12 enclosure dustproof and drip-proof for indoor use Vertical Surface mounting and installation |
| degree of protection NEMA rating of the 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 | NEMA 12 enclosure dustproof and drip-proof for indoor use Vertical Surface mounting and installation Screw-type terminals 20 20 lbf-in 1x (14 2 AWG) |
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| 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 fuse link for short-circuit protection of the main circuit required | 10kA@600V (Class H or K); 100kA@600V (Class R or J) |
| | 10kA@600V (Class H or K); 100kA@600V (Class R or J) Thermal magnetic circuit breaker |
| circuit required | |
| circuit required design of the short-circuit trip | |
| circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) | Thermal magnetic circuit breaker |
| circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V | Thermal magnetic circuit breaker 14 kA |
| circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V | Thermal magnetic circuit breaker 14 kA 10 kA |

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=US2:83CUC950G

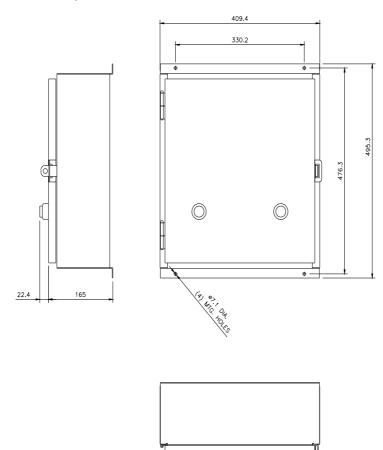
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:83CUC950G

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83CUC950G&lang=en

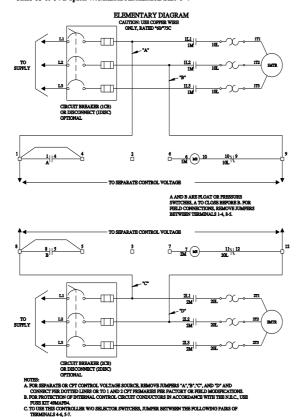
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83CUC950G/certificate



SCHEMATIC DIAGRAM

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



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