## SIEMENS



Figure similar

| product brand name | Class 84 |
| :---: | :---: |
| design of the product | Duplex controller with two non-fusible disconnect switches without alternator |
| special product feature | ESP200 overload relay; Half-size controller |
| General technical data |  |
| weight [lb] | 70 lb |
| Height x Width x Depth [in] | $34 \times 25 \times 8$ in |
| touch protection against electrical shock | NA for enclosed products |
| installation altitude [ft] at height above sea level maximum | 6560 ft |
| ambient temperature [ ${ }^{\circ} \mathrm{F}$ ] |  |
| - during storage | $-22 \ldots+149{ }^{\circ} \mathrm{F}$ |
| - during operation | $-4 \ldots+104{ }^{\circ} \mathrm{F}$ |
| ambient temperature |  |
| - during storage | $-30 \ldots+65{ }^{\circ} \mathrm{C}$ |
| - during operation | $-20 \ldots+40^{\circ} \mathrm{C}$ |
| country of origin | USA |
| Horsepower ratings |  |
| yielded mechanical performance [hp] for 3-phase AC motor |  |
| - at 200/208 V rated value | 10 hp |
| - at 220/230 V rated value | 10 hp |
| - at 460/480 V rated value | 15 hp |
| - at 575/600 V rated value | 15 hp |
| Contactor |  |
| size of contactor | Controller half size $13 / 4$ |
| 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 | 40 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 DC rated value | $0 \ldots 0 \mathrm{~V}$ |
| - 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 | 218 VA |
| apparent holding power of magnet coil at AC | 25 VA |
| operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1 |
| percental drop-out voltage of magnet coil related to the input voltage | 50 \% |
| ON-delay time | $19 . . .29 \mathrm{~ms}$ |
| OFF-delay time | $10 . . .24 \mathrm{~ms}$ |
| 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 currentdependent overload release | 10... 40 A |
| tripping time at phase-loss maximum | 3 s |
| relative repeat accuracy | 1 \% |
| 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 <br> - at AC at 600 V <br> - at DC at 250 V | $\begin{aligned} & 5 \mathrm{~A} \\ & 1 \mathrm{~A} \end{aligned}$ |
| 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 |
| Disconnect Switch |  |
| response value of switch disconnector | 60A / 600V |
| design of fuse holder | non-fusible |
| operating class of the fuse link | non-fusible |
| Enclosure |  |
| degree of protection NEMA rating of the enclosure | NEMA 4x 304 stainless steel enclosure |
| 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 | Box lug |
| tightening torque [lbf•in] for supply | $35 . . .35 \mathrm{lbf} \cdot \mathrm{in}$ |
| 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 permissible | $75^{\circ} \mathrm{C}$ |
| material of the conductor for supply | AL or CU |
| type of electrical connection for load-side outgoing feeder | Screw-type terminals |
| tightening torque [lbfin] for load-side outgoing feeder | $45 . . .45 \mathrm{lbf} \cdot \mathrm{in}$ |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multistranded | 1x (14 ... 2 AWG) |
| temperature of the conductor for load-side outgoing feeder | $75^{\circ} \mathrm{C}$ |


| maximum permissible |  |
| :---: | :---: |
| 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 | $5 \ldots 12 \mathrm{lbf} \cdot \mathrm{in}$ |
| type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded | 2x (16 ... 12 AWG) |
| temperature of the conductor at magnet coil maximum permissible | $75^{\circ} \mathrm{C}$ |
| material of the conductor at magnet coil | CU |
| type of electrical connection at contactor for auxiliary contacts | Screw-type terminals |
| tightening torque [lbf•in] at contactor for auxiliary contacts | $10 . .15 \mathrm{lbf} \cdot \mathrm{in}$ |
| type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multistranded | 1x (12 AWG), 2 x (16 .. 14 AWG), 2 x (18 ... 16 AWG) |
| temperature of the conductor at contactor for auxiliary contacts maximum permissible | $75^{\circ} \mathrm{C}$ |
| 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 | $7 \ldots 10 \mathrm{lbf} \cdot \mathrm{in}$ |
| type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multistranded | $2 x(20 . . .14$ AWG) |
| temperature of the conductor at overload relay for auxiliary contacts maximum permissible | $75^{\circ} \mathrm{C}$ |
| 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) |
| 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) <br> https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84EUE95WDF |  |
| Service\&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE95WDF |  |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=US2:84EUE95WDF\&lang=en |  |
| Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:84EUE95WDF/certificate |  |

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




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