SIEMENS

Data sheet

US2:84DUB95BMG



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 190-220/220-240V 50/60Hz coil, Combination type, Two 3A circuit breakers, Enclosure NEMA type 1, Indoor general purpose use

| 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 | 0.5 hp |
| • at 220/230 V rated value | 0.75 hp |
| at 460/480 V rated value | 1.5 hp |
| • at 575/600 V rated value | 2 hp |
| Contactor | |
| size of contactor | NEMA controller size 1 |
| 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 | 27 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 |

| ennegrant nick up neuron of meaner eail at A.C. | 240.1/4 |
|--|---|
| 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 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 | 0.75 3.4 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 | 5.4 |
| • at AC at 600 V | 5 A |
| • at DC at 250 V contact rating of auxiliary contacts of overload relay according to | 1 A 5A@600VAC (B600), 1A@250VDC (R300) |
| | |
| insulation voltage (Ui) | |
| | 000.1/ |
| • with single-phase operation at AC rated value | 600 V |
| with single-phase operation at AC rated valuewith multi-phase operation at AC rated value | 600 V 300 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure | 300 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure | 300 V NEMA Type 1 |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing | 300 V |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker | 300 V NEMA Type 1 indoors, usable on a general basis |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker | 300 V NEMA Type 1 indoors, usable on a general basis |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method 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 | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable 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 | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf-in |
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| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2x (14 10 AWG) 75 °C CU |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material 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 maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf in 2x (14 10 AWG) 75 °C CU Screw-type terminals 20 Kit the fin 2x (14 10 AWG) |
| with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil | 300 V NEMA Type 1 indoors, usable on a general basis Motor circuit protector (magnetic trip only) 3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 20 24 lbf-in 2x (14 10 AWG) 75 °C CU Screw-type terminals 5 12 lbf-in |

| 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,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUB95BMG

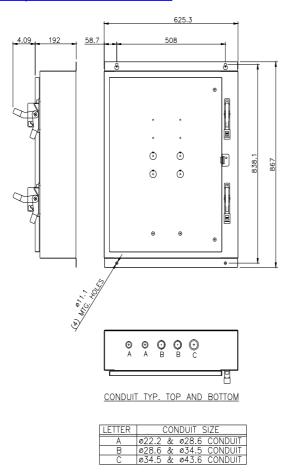
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUB95BMG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84DUB95BMG&lang=en

Certificates/approvals

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