SIEMENS

Data sheet

US2:18DUD92NL



Non-reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 240V 50HZ / 277V 60HZ coil Combination type 25Amp circuit breaker Enclosure NEMA type 4/12 Water/dust tight for outdoors Standard width enclosure

| product brand name | Class 18 & 26 |
|---|---|
| design of the product | Full-voltage non-reversing motor starter with motor circuit protector |
| special product feature | ESP200 overload relay |
| General technical data | |
| Height x Width x Depth [in] | 24 × 11 × 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 |
| 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 | 7.5 hp |
| • at 575/600 V rated value | 10 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 AC at 50 Hz rated value | 240 V |
| • at AC at 60 Hz rated value | 277 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 |

| magnet coil | |
|---|---|
| percental drop-out voltage of magnet coil related to the input | 50 % |
| voltage | 00 /0 |
| 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- | 5.5 22 A |
| dependent overload release | |
| 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 | 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 |
| Enclosure | |
| degree of protection NEMA rating | 4, 12 |
| degree of protection NEMA rating | 4, 12 |
| degree of protection NEMA rating design of the housing | dustproof, waterproof & weatherproof |
| | |
| design of the housing | |
| design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value | dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 25 A |
| 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 | dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) |
| 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 | dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 25 A |
| 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 | dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 25 A 55 180 A |
| 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 | dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 25 A 55 180 A Vertical |
| 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 | dustproof, waterproof & weatherproof Motor circuit protector (magnetic trip only) 25 A 55 180 A Vertical Surface mounting and installation |
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| AWG cables for auxiliary contacts single or multi-stranded | |
|--|-------------------------------------|
| 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 |
| Eurtherinformation | |

Further information

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

www.usa.siemens.com/iccatalog

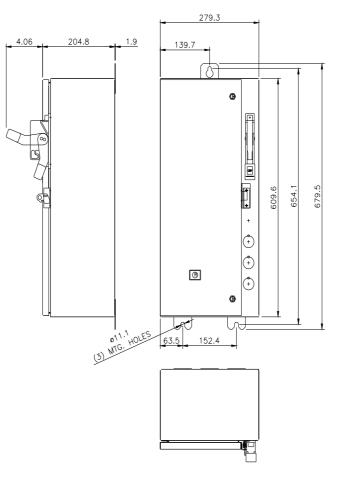
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18DUD92NL

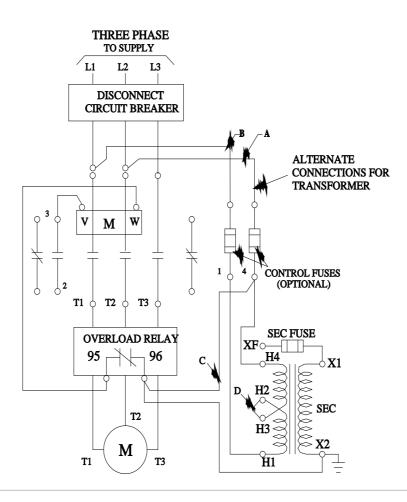
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:18DUD92NL

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18DUD92NL&lang=en

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