SIEMENS

Data sheet US2:18DUD92BJ



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 24VAC 50-60Hz coil, Combination type, 25A circuit breaker, Enclosure NEMA type 1, Indoor general purpose use, Standard width enclosure

Figure similar

| design of the product special product feature General technical data Height x Width x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation ambient temperature • during operation • during operation -20 +45 °C • during operation -20 +40 °C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value contactor number of NO contacts for main current circuit at AC at 60 Hz maximum attention and relay 24 × 11 × 8 in NA for enclosed products 6560 ft 6560 f | special product feature General technical data Height x Width x Depth [in] | · |
|--|--|---|
| Semeral 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 | General technical data Height x Width x Depth [in] | ESP200 everland relay |
| Height x Width x Depth [in] touch protection against electrical shock Installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during storage • during operation -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 • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value Contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum NA for enclosed products NEMA controller size 1 6560 ft NA for enclosed products NA for enclosed products NA for enclosed products 10 hp | Height x Width x Depth [in] | ESP200 overload relay |
| touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during storage • during operation -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 • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value -30 +65 °C - | | |
| installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation -22 +149 °F -4 +104 °F ambient temperature • during storage • during operation -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 • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • T.5 hp • at 575/600 V rated value Tontactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum | touch protection against electrical shock | 24 × 11 × 8 in |
| ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during operation • during storage • during operation • during operation • during operation • 20 +65 °C • during operation Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value In the contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum output -22 +149 °F -4 +104 °F -4 +105 °C -4 +106 °C -4 +1 | | NA for enclosed products |
| during storage during operation ambient temperature during storage during operation during ope | installation altitude [ft] at height above sea level maximum | 6560 ft |
| during operation ambient temperature during storage during operation -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 at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum 600 V | ambient temperature [°F] | |
| ambient temperature • during storage • during operation -20 +65 °C • during operation -20 +40 °C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum -30 +65 °C -20 +40 °C -20 +40 °C NPMA controller size 1 | during storage | -22 +149 °F |
| during storage during operation during operation -20 +40 °C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp Contactor size of contactor NEMA controller size 1 number of NO contacts for main current circuit at AC at 60 Hz maximum 600 V | during operation | -4 +104 °F |
| during operation -20 +40 °C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum -20 +40 °C A hurse 3 hp 7.5 hp 10 hp Contactor NEMA controller size 1 600 V | ambient temperature | |
| yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum | during storage | -30 +65 °C |
| yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum NEMA controller size 1 600 V | during operation | -20 +40 °C |
| motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value To hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum 3 hp 7.5 hp 10 hp NEMA controller size 1 600 V | Horsepower ratings | |
| at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum 600 V | | |
| at 460/480 V rated value 7.5 hp at 575/600 V rated value 10 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum 7.5 hp 10 hp NEMA controller size 1 3 600 V | • at 200/208 V rated value | 3 hp |
| at 575/600 V rated value Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum 10 hp NEMA controller size 1 3 600 V | at 220/230 V rated value | 3 hp |
| Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum NEMA controller size 1 3 600 V | at 460/480 V rated value | 7.5 hp |
| size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum NEMA controller size 1 3 600 V | • at 575/600 V rated value | 10 hp |
| number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum 600 V | Contactor | |
| operating voltage for main current circuit at AC at 60 Hz maximum 600 V | size of contactor | NEMA controller size 1 |
| maximum | number of NO contacts for main contacts | 3 |
| 27.1 | | 600 V |
| operational current at AC at 600 v rated value | operational current at AC at 600 V rated value | 27 A |
| mechanical service life (switching cycles) of the main contacts typical | | 10000000 |
| Auxiliary contact | | |
| number of NC contacts at contactor for auxiliary contacts 0 | contacts typical | |
| number of NO contacts at contactor for auxiliary contacts 1 | contacts typical Auxiliary contact | 0 |
| number of total auxiliary contacts maximum 8 | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts | |
| contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts | 1 |
| Coil | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according | 1 8 |
| type of voltage of the control supply voltage AC | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL | 1 8 |
| control supply voltage | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil | 1 8 10A@600VAC (A600), 5A@600VDC (P600) |
| • at AC at 50 Hz rated value 24 V | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage | 1 8 10A@600VAC (A600), 5A@600VDC (P600) |
| • at AC at 60 Hz rated value 24 V | contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage control supply voltage | 1 8 10A@600VAC (A600), 5A@600VDC (P600) |

| halding a sure of AO estimination | 0.01 |
|---|--|
| 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 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 | 1 |
| design of the housing | indoors, usable on a general basis |
| Circuit Breaker | |
| type of the motor protection | Motor circuit protector (magnetic trip only) |
| operational current of motor circuit breaker rated value | 25 A |
| adjustable current response value current of | 55 180 A |
| instantaneous short-circuit trip unit | 35 1367. |
| Mounting/wiring | |
| 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 at AWG cables single or multi-stranded | 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) |
| 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 | 35 35 lbf-in |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded | 1x (14 2 AWG) |
| temperature of the conductor for load-side outgoing feeder maximum permissible | 75 °C |
| 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 12 lbf·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 °C |
| material of the conductor at magnet coil | CU |
| type of electrical connection 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 at 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 at 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 |
| breaking capacity maximum short-circuit current (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=US2:18DUD92BJ

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18DUD92BJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18DUD92BJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18DUD92BJ/certificate

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