SIEMENS

Data sheet

US2:17DUD82BJ11



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, 30A fusible disconnect, 30A/600V fuse clip, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

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| product brand name | Class 17 | | | |
|---|---|--|--|--|
| design of the product | Non-reversing motor starter with fusible disconnect | | | |
| special product feature | ESP200 overload relay | | | |
| General technical data | | | | |
| weight [lb] | 47 lb | | | |
| Height x Width x Depth [in] | 24 × 20 × 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 hp | | | |
| • at 220/230 V rated value | 0 hp | | | |
| • at 460/480 V rated value | 10 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 (switching 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 | | | | |

| • el AC at 50 Hz rated value 24 V • holding power at AC minimum 8.6 W apparent holding power of magnet coil at AC 28 VA operating range factor control supply voltage rated value 0.85 1.1 of magnet coil 60 % percental drop-out voltage of magnet coil related to the input voltage 60 % ON-delay time 10 24 ms Overload relay 7es product function Yes • overload protection Yes • overload fault detection Yes • estemal reset Yes reset function Yes • external reset Yes reset function Yes external reset Yes reset function Yes reset function Yes trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- 5.5 22 A tripping time at phase-loss maximum 3 s relative repeat accuracy Yes product fauster protective coating on printed-circuit boadr 1 number o | | | |
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| holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA operating range factor control supply voltage rated value of magnet coil 25 VA operating range factor control supply voltage rated value of magnet coil 50 % ON-delay time 19 29 ms OFF-delay time 10 24 ms Overload rotage Yes product function Yes • overload protection Yes • overload protection Yes • overload protection Yes • overload protection Yes • est function Yes • est function Yes • est function Yes • est function 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 5.5 22 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product fasture protective coating on printed-circuit board relay 1 operational | | | |
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| product function Yes • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • esternal reset 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 5.5 22 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 operational current of auxiliary contacts of overload relay 5.A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5.A@@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) • with multi-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 30A / 600V Class R fuse clips operating class of the f | | | |
| • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground fault detection Yes • ground fault detection Yes • external reset Yes reset 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 5.5 22 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 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@@00VAC (B600), 1A@250VDC (R300) according to UL insulation voltage (U) 600 V • with multi-phase operation at AC rated value 300 V Disconnect Switch 30A / 600V | | | |
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| • 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 5.5 22 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 operational current of auxiliary contacts of overload relay eat AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 600 V insulation voltage (UI) 600 V • with multi-phase operation at AC rated value 300 V Disconnect Switch 30A / 600V response value of switch disconnector 30A / 600V design of fuse holder Class R fuse clips operating class of the fuse link Class R | | | |
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| design of fuse holder Class R fuse clips operating class of the fuse link Class R Enclosure Enclosure | | | |
| operating class of the fuse link Class R Enclosure | | | |
| Enclosure | | | |
| | | | |
| | | | |
| degree of protection NEMA rating 1 | | | |
| design of the housing indoors, usable on a general basis | | | |
| Mounting/wiring | | | |
| mounting position vertical | | | |
| fastening method Surface mounting and installation | | | |
| type of electrical connection for supply voltage line-side Box lug | Box lug | | |
| tightening torque [lbf·in] for supply 35 35 lbf·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 75 °C permissible | | | |
| 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 75 °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 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 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) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17DUD82BJ11 | | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:17DUD82BJ11 | | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17DUD82BJ11⟨=en | | | | |
| Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:17DUD82BJ11/certificate | | | | |

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