SIEMENS

Data sheet

US2:18FUF82XG



Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, Combination type, 50A circuit breaker, Encl NEMA type 4X 316 S-Steel, Water/dust tight noncorrosive, Extra-wide 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 × 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 |
| 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 | 15 hp |
| • at 460/480 V rated value | 25 hp |
| • at 575/600 V rated value | 25 hp |
| Contactor | |
| size of contactor | NEMA controller size 2 |
| 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 | 45 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 | 7 |
| 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 | 190 220 V |
| at AC at 60 Hz rated value | 220 240 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 | 0.85 1.1 |

| Imagine tool 50 % ON-delay time 10 29 ms CFF-folding time 10 24 ms CFF-folding time 10 24 ms Vertical relay 10 24 ms CFF-folding time 10 24 ms Vertical relay 13 52 A Operation of the current response value current of the current. 13 52 A departed contacts of auxiliary contacts of overbad relay 1 relative reget accuracy 1 % number of NC contacts of auxiliary contacts of overbad relay 1 operational carrent of auxiliary contacts of overbad relay 1 operational carrent of auxiliary contacts of overbad relay 1 operational carrent of auxiliary contacts of overbad relay 1 outs cattarg of auxiliary contacts of overbad relay auxiliary contacts of overbad relay auxiliary contacts of overbad relay auxiliary contacts of auxiliary contacts of overbad relay auxiliary contacts of overbad relay auxiliary contacts of auxiliary contacts o | | |
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| type of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of connectable conductor cross-sections of magnet coil5 12 lbf-intype of electrical connection of magnet coil5 12 lbf-intype of connectable conductor at magnet coil maximum75 °Cmaterial of the conductor at magnet coil5 12 lbf-intype of connectable conductor at magnet coil2x (16 12 AWG) | | |
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| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissibleAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor at magnet coil maximum permissible2x (16 12 AWG)temperature of the conductor at magnet coilCU | | · · · |
| temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCU | type of connectable conductor cross-sections for AWG cables | |
| material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCU | temperature of the conductor for load-side outgoing feeder | 75 °C |
| type of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCU | | AL or CLL |
| tightening torque [lbf-in] at magnet coil 5 12 lbf-in type of connectable conductor cross-sections of magnet coil for 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 connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coilCU | | |
| temperature of the conductor at magnet coil maximum 75 °C permissible CU | type of connectable conductor cross-sections of magnet coil for | |
| material of the conductor at magnet coil CU | temperature of the conductor at magnet coil maximum | 75 °C |
| | | CU |
| | | |
| 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) | type of connectable conductor cross-sections at contactor for | 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) |
| temperature of the conductor at contactor for auxiliary contacts maximum permissible 75 °C | | 75 °C |
| material of the conductor at contactor for auxiliary contacts CU | | |
| type of electrical connection at overload relay for auxiliary Screw-type terminals | maximum permissible | |
| tightening torque [lbf-in] at overload relay for auxiliary contacts 7 10 lbf-in | maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary | CU |
| type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded 2x (20 14 AWG) | maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts | CU Screw-type terminals |

| 75 °C |
|-------------------------------------|
| |
| CU |
| |
| Instantaneous trip circuit breaker |
| |
| 100 kA |
| 100 kA |
| 25 kA |
| 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)

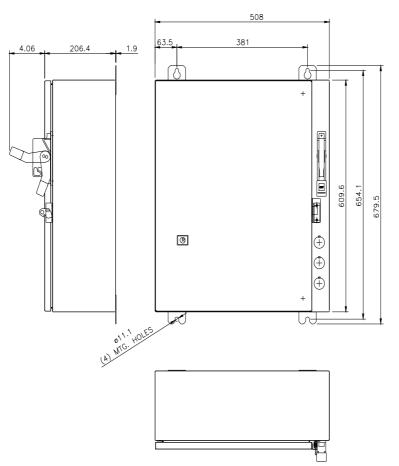
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18FUF82XG

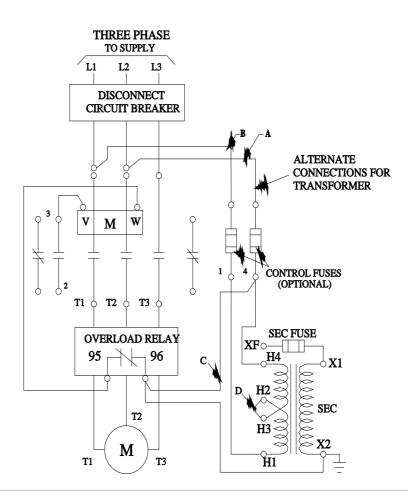
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18FUF82XG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18FUF82XG&lang=en

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