SIEMENS

Data sheet

US2:14GUG820J



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solid-state overload relay, OLRelay amp range 25-100A, 24VAC 50-60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Extra-wide enclosure

Figure similar

| General technical data | |
|--|----------------------------|
| Weight [lb] | 19 lb |
| Height x Width x Depth [in] | 16 × 13 × 6 in |
| 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 |
| Ambient temperature [°F] during operation | -4 +104 °F |
| Ambient temperature during storage | -30 +65 °C |
| Ambient temperature during operation | -20 +40 °C |
| Country of origin | USA |
| Horsepower ratings | |
| Yielded mechanical performance [hp] for three-phase | |
| AC motor | |
| • at 200/208 V rated value | 15 hp |
| • at 220/230 V rated value | 20 hp |
| • at 460/480 V rated value | 30 hp |

| • at 575/600 V r | ated value |
|------------------|------------|
|------------------|------------|

30 hp

| • at 575/600 V rated value | 30 np |
|--|--------------------------------------|
| Contactor | |
| Number of NO contacts for main contacts | 3 |
| Operating voltage for main current circuit at AC at 60 Hz maximum | 600 V |
| Operating current at AC at 600 V rated value | 60 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 | 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 DC rated value | 0 0 V |
| • at AC at 60 Hz rated value | 24 24 V |
| • at AC at 50 Hz rated value | 24 24 V |
| Holding power at AC minimum | 8.6 W |
| Apparent pick-up power of magnet coil at AC | 218 V·A |
| Apparent holding power of magnet coil at AC | 25 V·A |
| 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 % |
| Switch-on delay time | 19 29 ms |
| Off-delay time | 10 24 ms |
| Overload relay | |
| Product function | |
| Overload protection | Yes |
| Phase failure detection | Yes |
| Phase unbalance | 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 pick-up value current of the current- dependent overload release | 25 100 A |
|---|--|
| Trip 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 |
| Operating 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 | |
| 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 of the enclosure | NEMA Type 12 |
| Design of the housing | Dust tight and drip proof for indoors |
| | |
| Mounting/wiring Mounting position | Vertical |
| (mounting type) | Surface mounting and installation |
| Type of electrical connection for supply voltage line- | Box lug |
| side | |
| side Tightening torque [lbf·in] for supply | 45 45 lbf·in |
| | 45 45 lbf·in 1x(14 - 2 AWG) |
| Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- | |
| Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum | 1x(14 - 2 AWG) |
| Tightening torque [lbf·in] for supply Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded Temperature of the conductor for supply maximum permissible | 1x(14 - 2 AWG) 75 °C |
| Tightening torque [lbf·in] for supplyType of connectable conductor cross-sections at line- side at AWG conductors single or multi-strandedTemperature of the conductor for supply maximum permissibleMaterial of the conductor for supplyType of electrical connection for load-side outgoing | 1x(14 - 2 AWG) 75 °C AL or CU |
| Tightening torque [lbf·in] for supplyType of connectable conductor cross-sections at line- side at AWG conductors single or multi-strandedTemperature of the conductor for supply maximum permissibleMaterial of the conductor for supplyType of electrical connection for load-side outgoing feederTightening torque [lbf·in] for load-side outgoing | 1x(14 - 2 AWG) 75 °C AL or CU Box lug |
| Tightening torque [lbf·in] for supplyType of connectable conductor cross-sections at line- side at AWG conductors single or multi-strandedTemperature of the conductor for supply maximum permissibleMaterial of the conductor for supplyType of electrical connection for load-side outgoing feederTightening torque [lbf-in] for load-side outgoing feederType of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder | 1x(14 - 2 AWG) 75 °C AL or CU Box lug 45 45 lbf·in |
| Tightening torque [lbf·in] for supplyType of connectable conductor cross-sections at line-side at AWG conductors single or multi-strandedTemperature of the conductor for supply maximumpermissibleMaterial of the conductor for supplyType of electrical connection for load-side outgoingfeederTightening torque [lbf·in] for load-side outgoingfeederType of connectable conductor cross-sections atAWG conductors for load-side outgoing feederType of connectable conductor cross-sections atAWG conductors for load-side outgoing feeder singleor multi-strandedTemperature of the conductor for load-side outgoing | 1x(14 - 2 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x(14 - 2 AWG) |

| Tightening torque [lbf·in] at magnet coil | 5 12 lbf·in |
|--|---|
| Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded | 2 x (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 conductors for auxiliary contacts single or multi-stranded | 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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 conductors for auxiliary contacts single or multi-stranded | 2 x (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) |
| Design of the short-circuit trip | Thermal magnetic circuit breaker |
| Maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 14 kA |
| • at 480 V | 10 kA |
| • at 600 V | 10 kA |

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...) www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

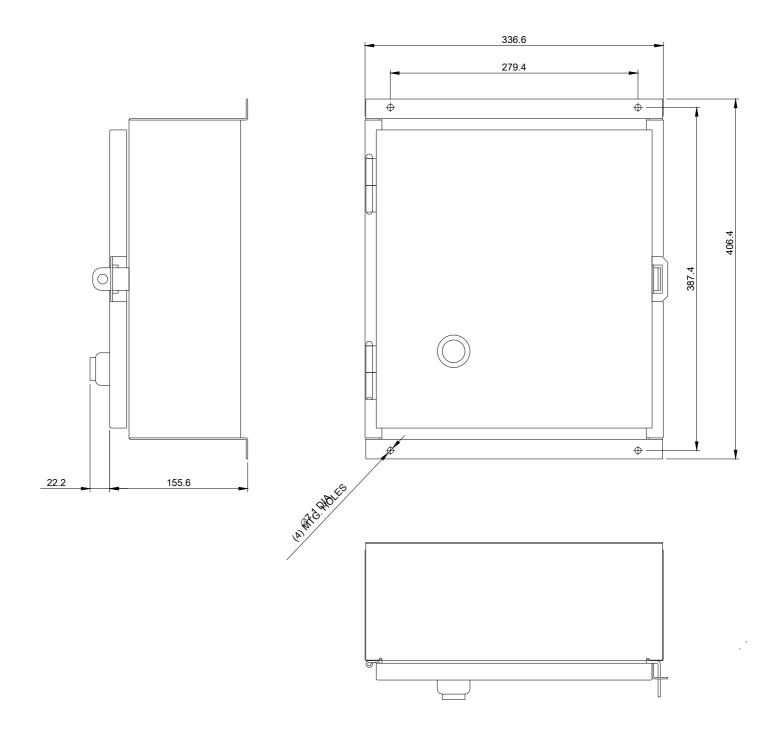
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14GUG820J

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG820J

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14GUG820J&lang=en

Certificates/approvals

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