## **SIEMENS**

Data sheet US2:17GUG82NG13



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 25-100A, Combination type, 60A fusible disconnect, 60A/600V fuse clip, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Extra-wide enclosure

Figure similar

| product brand name  | Class 17  |
|---|---|
| design of the product   | Non-reversing motor starter with fusible disconnect |
| special product feature   | ESP200 overload relay; Half-size controller         |
| General technical data  |   |
| weight [lb]   | 78 lb   |
| Height x Width x Depth [in]   | 36 × 24 × 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]  |   |
| <ul> <li>during storage</li> </ul>                                      | -22 +149 °F   |
| <ul><li>during operation</li></ul>                                      | -4 +104 °F  |
| ambient temperature   |   |
| <ul> <li>during storage</li> </ul>                                      | -30 +65 °C  |
| <ul><li>during operation</li></ul>                                      | -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  |
| <ul> <li>at 460/480 V rated value</li> </ul>                            | 0 hp  |
| • at 575/600 V rated value  | 30 hp   |
| Contactor   |   |
| size of contactor   | Controller half size 2 1/2                          |
| 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                          | 60 A  |
| mechanical service life (switching cycles) of the main contacts typical | 10000000  |
| 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  |   |

| and AC at 50 Hz rated value and AC at 50 Hz rated value blotling power at AC minimum apparent holding power of magnet coil at AC apparent holding power o  | -1.40 -1.50 Uz  | 400 000 1/                           |
|--|---|--------------------------------------|
| bolding power at AC minimum   s.6 B W   apparent power of magnet coil at AC   216 VA   apparent holding power of magnet coil at AC   25 VA   0.85 1.1  | at AC at 50 Hz rated value  | 190 220 V                            |
| apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC portains prage factor control supply voltage rated value percental drop-out voltage of magnet coil related to the injust voltage.  CNL-delay time 19 . 29 ms  OFF-delay time 10  |   |                                      |
| apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-cut voltage of magnet coil related to the input voltage OR-5 delay time OR-5 delay time 1024 ms Or-5 delay time 1024 ms Or-5 delay time 1024 ms Or-5 delay time  Ves overload protection • overload relay • overload relay • overload relay • overload relay • overload feelbre • overload feelb          |   |                                      |
| operating range factor control supply voltage rated value of magnet coil percental drop out voltage of magnet coil related to the injust voltage.  ON-Gelay time 1924 ms  Orestoad relay imperating the provided relative detection 49 more of the control of the     |   |                                      |
| of magnet coil precental drop-out voltage of magnet coil related to the input voltage ON-delay time OF-delay time 1929 ms OF-delay time 1024 ms Overload relay product function • overload protection • phase failure detection • phase failure detection • asymmetry detection • casternal reset • casternal reset • casternal reset reset function • lest function • casternal reset reset function • casternal reset reset function • control phase-loss maximum ricelative repeat accuracy ripping time at phase-loss maximum relative repeat accuracy reproduct feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay • at AC at 250 V • at DC at 250 V • at DC at 250 V • at DC at 250 V • with multi-phase operation at AC rated value operating class of the fuse link  response value of switch disconnector  design of the housing  mounting position fastering method type of electrical connection for supply voltage line-side at MVG cables single or multi-stranded  temperature of the conductor for supply instimum permissible material of the conductor for supply maximum permissible material of the conductor for supply wainum permissible material of the conductor for supply instimum permissible material of the conductor for supply instimum permissible material of the conductor for load-side outgoing feeder type of onerciable conductor for load-side outgoing feeder type of on       |   |                                      |
| Injury voltage ON-delay time OF-delay time OF-delay time OVerdoad relay product function • overload protection • phase failure detection • asymmetry detection • external reset reset function Introclass reset function  Annual, automatic and remote CLASS 57 107 20 (factory set) 730 adjustable current response value current of the current-dependent overload release Impring time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay and protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay at AC at 600 V • at DC at 250 V contact reling of auxiliary contacts of overload relay • with single-phase operation at AC rated value • with multi-phase operation at  | of magnet coil  |                                      |
| Overload rollsy product function  • overload protection  • overload protection  • phase failure detection  • saymmetry detection  • caterial reset  • ground fault detection  • test function  • external reset  • ground fault detection  • test function  • external reset  • ground fault detection  • external reset  • ground fault detection  • test function  • external reset  • ground fault detection  • external reset  • ground fault detection  • test function  • external reset  • ground fault detection  • test function  • external reset  • ground fault detection  • ground fault detectio |   | 50 %                                 |
| product function  • overload protection  • phase failure detection  • product faction  fitpic dass  adjustable current response value current of the current- degree of product facting protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  • at DC at 250 V  • at DC at 250 V  • with multi-phase operation at AC rated value  • with multi-phase operation of the sun of the su | ON-delay time   | 19 29 ms                             |
| product function   | OFF-delay time  | 10 24 ms                             |
| • overload protection • phase failure detection • asymmetry detection • ground fault detection • casymmetry detection • external reset  reset function • external reset  reset function • external response value current of the current-dependent overload releases  tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-clicuit board number of NC contacts of auxiliary contacts of overload relay  product feature protective coating on printed-clicuit board number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay • at A Cat 450 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  Cass R  Cas  | Overload relay  |                                      |
| phase failure detection asymmetry detection ground fault detection test function test function external reset  resel function  fitip class adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V according to UL insulation voltage (II) with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value of with multi-phase operation at AC rated value of with multi-phase operation at AC rated value of selign of fuse helder operating class of the fuse link calsign of the she helder operating class of the fuse link calcing of time housing  Mounting/wiring mounting position tastening method type of connectable conductor cross-sections at line-side at AWC acides single or multi-stranded temperature of the conductor for supply type of connectable conductor cross-sections at line-side at AWC acides single or multi-stranded temperature of the conductor for supply type of connectable conductor cross-sections at AWC acide outgoing feeder type of connectable conductor cross-sections at line-side at AWC acides single or multi-stranded temperature of the conductor for supply waximum permissible material of the conductor for supply waximum permissible material of the conductor for supply type of connectable conductor cross-sections at AWC acides single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor for supply such acide outgoing feeder type of connectable conductor for supply such acide outgoing feeder type of connectable conductor for supply such acide outgoing feeder type of connectable conductor for supply such acide outgoing feeder type of connectable conductor for supply the conductor for supply acide conductor fo  | product function  |                                      |
| asymmetry detection     ground fault detection     test function     external reset     yes     reset function     Indicate the external reset     yes     reset function     Indicate the external reset     yes     adjustable current response value current of the current dependent overfoad release     tripping time at phase-loss maximum     s tripping time of NC contacts of auxiliary contacts of overload relay     s at AC at 600 V     s at DC at 250 V     s at DC      | <ul> <li>overload protection</li> </ul>                           | Yes                                  |
| • ground fault detection • text function • external reset  reset function  • oxternal reset  reset function  Adjustable current response value current of the current-dependent overfoad release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  • at NC at 800 V • at DC at 250 V • at Ca 81250 V • at Ca 1800 V • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with single-phase operation • operating class of the fuse link  Class R (use clips operating class of the fuse link  Class R (use clips operating class of the fuse link  Class R (use clips operating conditions of the suspity voltage line-side tightening torque [lbf-in] for supply type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible temperature of the conductor for load-side outgoing feeder tightening torque [lbf-in] f  | <ul> <li>phase failure detection</li> </ul>                       | Yes                                  |
| external reset reset function  reset function  Manual, automatic and remote  CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overload release  tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board rumber of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay at AC at 600 V  at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (UI)  with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value cleary  design of fuse holder degree of protection NEMA rating design of the housing  mounting position fastening method type of electrical connection for supply voltage line-side lightening torque [lbf-in] for supply ype of connectable conductor cross-sections at line-side tightening torque [lbf-in] for supply ype of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible temperature of the conductor for supply at a Call Scale of the supplement of the co | <ul> <li>asymmetry detection</li> </ul>                           | Yes                                  |
| reset function   | <ul> <li>ground fault detection</li> </ul>                        | Yes                                  |
| reset function trip class cdjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay noperational current of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at DC at 250 V with multi-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value operating class of the fuse link Class R  | • test function   | Yes                                  |
| trip class adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V at AC at 500 V because of auxiliary contacts of overload relay with single-phase operation at AC rated value with multi-phase operation at AC rat | <ul> <li>external reset</li> </ul>                                | Yes                                  |
| adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay • at MC at 500 V • with multi-phase operation at AC rated value  Obsconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Class R  Enclosuro  degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side at AWC cables single or multi-stranded temperature of the conductor for supply Type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply maximum permissible material of the conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply Type of conductable conductor for supply Type of connectable conductor for supply Type of conductable conductor for supply Type of connectable conductor f | reset function  | Manual, automatic and remote         |
| adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay • at MC at 500 V • with multi-phase operation at AC rated value  Obsconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Class R  Enclosuro  degree of protection NEMA rating design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side at AWC cables single or multi-stranded temperature of the conductor for supply Type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply maximum permissible material of the conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply Type of connectable conductor for supply Type of conductable conductor for supply Type of connectable conductor for supply Type of conductable conductor for supply Type of connectable conductor f | trip class  | CLASS 5 / 10 / 20 (factory set) / 30 |
| relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • over the fuse of the fuse link  Enclosure  degree of protection NEMA rating  design of the housing  wertical  Surface mounting and installation  Surface mounting and installation  Surface mounting and installation  Surface mounting and installation  **Surface mounting and install |   |                                      |
| product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with single-phase operation at AC rated value  • w | tripping time at phase-loss maximum                               | 3 s                                  |
| product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • ow of the substitute of the conductor for supply  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type of connectable conductor for load-si |   | 1 %                                  |
| number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to U.  insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  operating class of the fuse link Class R  Enclosuro degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [ibf-in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply  type of electrical connection for load-side outgoing feeder tightening torque [ibf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type o | •   | Yes                                  |
| number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  owith multi-phase operation at AC rated value  overlang class of the fuse link  Class R fuse clips operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating design of the housing  mounting/wiring  mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply type of electrical connectation for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque flbf-in] for load-side outgoing  | number of NC contacts of auxiliary contacts of overload           | 1                                    |
| operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  Enclosure  degree of protection NEMA rating  design of the housing  Mounting/wiring  mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  itightening torque [libFin] for supply  type of connectable conductor cross-sections at line-side  at AWG cables single or multi-stranded  temperature of the conductor for supply maximum  permissible  material of the conductor for load-side outgoing feeder  tightening torque [libFin] for load-side outgoing feeder  tightening torque [libFin] for load-side outgoing feeder  tightening torque [libFin] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder  tightening torque [libFin] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder stightening torque [libFin] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables for load-side outgoing feeder  type of connectable conductor cross-sections at AWG  cables of load-side outgoing feeder  type of electrical connection for load-side outgoing feeder   | number of NO contacts of auxiliary contacts of overload           | 1                                    |
| at AC at 600 V at DC at 250 V at DC at 250 V at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value  Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link  Enclosure degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method  Lype of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply lype of connectable conductor rors-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder themperature of the conductor for load-side outgoing feeder to the conductor for load-side outgoing feeder   | operational current of auxiliary contacts of overload relay       |                                      |
| contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  100 V  |   | 5 A                                  |
| according to UL insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector design of fuse holder Operating class of the fuse link Class R  Enclosure degree of protection NEMA rating design of the housing  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded type of electrical connection for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing fee | ● at DC at 250 V  | 1 A                                  |
| insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder   |   | 5A@600VAC (B600), 1A@250VDC (R300)   |
| South multi-phase operation at AC rated value   300 V  |   |                                      |
| South multi-phase operation at AC rated value   300 V  | <ul> <li>with single-phase operation at AC rated value</li> </ul> | 600 V                                |
| response value of switch disconnector design of fuse holder Operating class of the fuse link Class R  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of connectable conductor for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder  |   | 300 V                                |
| response value of switch disconnector design of fuse holder Operating class of the fuse link Class R  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of connectable conductor for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder  | <u> </u>  |                                      |
| design of fuse holder operating class of the fuse link Class R  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply  Type of electrical connection for supply maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder   |   | 60A / 600V                           |
| operating class of the fuse link  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder toghthening torque [lbf-in] for load-side outgoing feeder   | _ ·   |                                      |
| degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor for supply  AL or CU type of connectable conductor for load-side outgoing feeder type of connectable conductor for supply type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder  75 °C  |   |                                      |
| degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  material of the conductor for supply tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder toghthening torque [lbf-in] for supply  temperature of the conductor cross-sections at line-side at AWG cables single or multi-stranded  To C  Box lug  1x (14 2 AWG)  AL or CU  Type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder   | . 5   | Oldou I I                            |
| design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder   |   | 1 12                                 |
| Mounting/wiring       vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       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 permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 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  |   |                                      |
| mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C  | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                           | uusipiooi, waterpiooi α weatherprooi |
| fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  Surface mounting and installation  Box lug  1x (14 2 AWG)  AL or CU  Box lug  45 45 lbf·in  1x (14 2 AWG)  1x (14 2 AWG)  | , , , , , , , , , , , , , , , , , , ,                             |                                      |
| type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C  75 °C  | <u> </u>  |                                      |
| tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  75 °C  |   |                                      |
| type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor feeder temperature |   |                                      |
| at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C   |   |                                      |
| permissible  material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C  | at AWG cables single or multi-stranded                            |                                      |
| type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  To so lug  Box lug  45 45 lbf·in  1x (14 2 AWG)  75 °C   | permissible   | 75 °C                                |
| tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C  | material of the conductor for supply                              | AL or CU                             |
| type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  75 °C   | type of electrical connection for load-side outgoing feeder       | Box lug                              |
| cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C  | tightening torque [lbf·in] for load-side outgoing feeder          | 45 45 lbf·in                         |
| temperature of the conductor for load-side outgoing feeder 75 °C   | cables for load-side outgoing feeder single or multi-             | 1x (14 2 AWG)                        |
|  | temperature of the conductor for load-side outgoing feeder        | 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-<br>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=US2:17GUG82NG13

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

https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82NG13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17GUG82NG13&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17GUG82NG13&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17GUG82NG13/certificate

last modified: 1/25/2022 🖸