## **SIEMENS**

Data sheet US2:18HUG92XG



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, Combination type, 125A circuit breaker, Encl NEMA type 4X 316 S-Steel, Water/dust tight noncorrosive, Standard width 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]  |   |
| <ul> <li>during storage</li> </ul>                                      | -22 +149 °F   |
| during operation  | -4 +104 °F  |
| ambient temperature   |   |
| during storage  | -30 +65 °C  |
| <ul> <li>during operation</li> </ul>                                    | -20 +40 °C  |
| Horsepower ratings  |   |
| yielded mechanical performance [hp] for 3-phase AC motor                |   |
| • at 200/208 V rated value  | 25 hp   |
| • at 220/230 V rated value  | 30 hp   |
| • at 460/480 V rated value  | 50 hp   |
| • at 575/600 V rated value  | 50 hp   |
| Contactor   |   |
| size of contactor   | NEMA controller size 3  |
| 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                          | 90 A  |
| mechanical service life (operating cycles) of the main contacts typical | 5000000   |
| 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  |   |
| <ul> <li>at AC at 50 Hz rated value</li> </ul>                          | 190 220 V   |
| at AC at 60 Hz rated value  | 220 240 V   |
| holding power at AC minimum   | 14 W  |
| apparent pick-up power of magnet coil at AC                             | 310 VA  |
| apparent holding power of magnet coil at AC                             | 26 VA   |
| operating range factor control supply voltage rated value of            | 0.85 1.1  |

| precental drop out voltage of magnet coil related to the input voltage precental drop out voltage of magnet coil related to the input voltage of the collection of the control of the cont  |  |  |
|---|--|--|
| Vocables from Vo  | magnet coil  |  |
| O'N-classification  O'R-classify time  O'R-classification  O'Restriction  O'Restr  |  | 50 %   |
| Conclusion (Chip) reset function try class displaced current response value current of the current- dependent overfood release and authorities and authorities and authorities and authorities and authorities at after power failure maximum are failure repeat accuracy number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay and AC at 800 V and AC at 800 V and AC at 800 V be and Ca 250 V contact rating of auxiliary contacts of overload relay and AC at 800 V which single-phase operation at AC rated value with mills-phase operation at AC r  |  | 26 41 ms   |
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| dejendent overfload release make time with submaste start after power failure maximum size and submaste start after power failure maximum number of NC contacts of auxiliary contacts of overfload relay number of NC contacts of auxiliary contacts of overfload relay e at AC at 600 V at DC outsides of auxiliary contacts of overfload relay at AC at 600 V at DC outsides of auxiliary contacts of overfload relay at AC at 600 V at DC outsides of auxiliary contacts of overfload relay at AC ac 600 V at DC outsides of auxiliary contacts of overfload relay according to U.  **With single-phase operation at AC rated value **with multi-phase operation at AC rated value **gegree of production NEMA rating **design of the housing **design of  | ·  |  |
| relative repeat accuracy number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay a fat Ac at 800 V at DC at 250 V orthogonal current of auxiliary contacts of overload relay at AC at 800 V at DC at 250 V orthogonal current of auxiliary contacts of overload relay at AC at 800 V at DC at 250 V orthogonal current of auxiliary contacts of overload relay according to CIL Insulation voltage (U) with single phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value degine of the housing degine of protection NEMA rating degine of the housing dispression of the housing dispression of the housing dispression of the housing dispression of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit try buntl  Mounting ivining mounting position fissiening method Uppe of electrical connection for supply voltage line-side AWG cables single or multi-stranded temperature of the conductor for supply mountinum permissible material of the conductor at magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts supplementation of the conductor at contactor for   |  |  |
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| number of NO contacts of auxiliary contacts of overload relay  at AC of 800 V  at DC at 259 V  at DC at 259 V  insulation voltage (U)  with single-phase operation at AC rated value  with multi-phase operation at AC rated value  Multi-phase operation at AC rated value  with multi-phase operation at AC rated value  ### AC value  | ·  |  |
| operational current of auxiliary contacts of overload relay  • at AC at 500 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (U)  • with single-phase operation at AC rated value  • with multi-phase operation of AC rated value  • with multi-phase operation  | ·  |  |
| at AC at 260 V at DC at 280 V contact rating of auxiliary contacts of overload relay according to DL.  misulation voltage (UI) with single-phase operation at AC rated value with multi-phase operation at AC rated value  according to the housing design of the design of th   | ·  | 1  |
| and DC at 250 V contact rating of auxiliary contacts of overload relay according to 0.1 contact rating of auxiliary contacts of overload relay according to 0.1 contact rating of auxiliary contacts of overload relay according to 0.1 contact rating of auxiliary contacts of overload relay according to 0.1 contact rating of 0.2 contact rating 0.2 contact project on NEMA rating 0.2 degree of protection NEMA rating 0.2 degree of protection NEMA rating 0.2 design of the housing 0.2 design of the contact of routing breaker rated value 12.5 design of the contact response value current of instantaneous 2.2 short-crout trip unit 0.2 design of according to the design of the    |  |  |
| contact rating of auxiliary contacts of overload relay according to Insulation voltage (UI)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • over the housing  • design of the housing  • design of the housing  • design of the housing  • disupproof, waterproof & resistant to corrosion  • Itzuli Brasker  • type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous short-circuit frug unit  • wounting/wiring  • wounting/wiring  • wounting/wiring  • wounting/wiring  • wounting/wiring  • wounting/wiring  • wounting position  • Surface mounting and installation  • Bax ling  • yep of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  • temperature of the conductor for supply walkinum permissible  material of the conductor for supply  • yep of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  • type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor for load-side outgoing feeder  • type of connectable conductor or auxiliary contacts  • type of connectable conductor or or auxiliary contacts  • type of connectable conduc  |  |  |
| insulation voltage (U)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  degree of protection NEMA rating  design of the housing  design of the housing  design of the housing  (Ircuit Brasker  type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous  short-circuit trip unit  Mounting-writing  mounting position  Vertical  sastening method  fastening method  fastening method  Vertical  Surface mounting and installation  Bype of electrical connection for supply voltage line-side  type of connectable conductor cross-sections at line-side for  AUG cables single or multi-strated  temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible  sightening torque (Ibf-in) for load-side outgoing feeder  sightening torque (Ibf-in) for load-side outgoing feeder  supper of electrical connection for load-side outgoing feeder  supperature of the conductor for load-side outgoing feeder  subground of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  subground of the conductor of road-side outgoing feeder  subground of the   |  |  |
| with single-phase operation at AC rated value     with multi-phase operation at AC rated value     with multi-phase operation at AC rated value     degree of protection NEMA rating     design of the housing     design of the housing     design of the housing     dustproof, waterproof & resistant to corrosion     Circuit Breaker  Where of the motor protection     operational current of motor circuit breaker rated value     adjustable current response value current of Instantaneous     short-circuit trip unit     Mounting/wring     mounting position     fastening method     fastening method     surface mounting and installation     Spy of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded     temperature of the conductor for supply maximum permissible     material of the conductor for supply maximum permissible     material of the conductor for supply maximum permissible     supply of electrical connection for load-side outgoing feeder     type of connectable conductor for supply maximum permissible     integration of the conductor for supply maximum permissible     integration of the conductor for supply maximum permissible     material of the conductor for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     type of one conductor for load-side outgoing feeder     type of one conductor for load-side outgoing feeder     maximum permissible     material of the conductor for load-side outgoing feeder     maximum permissible     material of the conductor for load-side outgoing feeder     integration of the conductor of load-side outgoing feeder     integration of the conductor of load-side outgoing feeder     integration        | , ,  | 5A@600VAC (B600), 1A@250VDC (R300)   |
| With multi-phase operation at AC rated value   300 V  | insulation voltage (Ui)  |  |
| degree of protection NEMA rating design of the housing Circuit Breaker  type of the motor protection position Motor circuit protector (magnetic trip only) positional current of motor circuit breaker rated value 125 A adjustable current response value current of instantaneous short-circuit trip unit Mounting/wifing mounting position Sastening method Surface mounting and installation  Type of electrical connection for supply voltage line-side Surface mounting and installation  Type of electrical connection for supply waximum permissible temperature of the conductor for supply Type of celectrical connection for load-side outgoing feeder Supe of electrical connection for load-side outgoing feeder Type of connectable conductor cross-sections at line-side for lax (14. 20 AWG)  Type of celectrical connection for load-side outgoing feeder Suppe of celectrical connection for load-side outgoing feeder Suppe of celectrical connection for load-side outgoing feeder Supper of the conductor for supply Type of connectable conductor cross-sections of NAIC cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder Maximum permissible material of the conductor for load-side outgoing feeder Supper of electrical connection of magnet coil Screw-type terminals Sightening torque [librin] at contactor for auxiliary contacts Screw-type terminals  | <ul> <li>with single-phase operation at AC rated value</li> </ul>  | 600 V  |
| design of the housing dustproof, waterproof & resistant to corrosion Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value particular proof of the motor protection operational current response value current of instantaneous short-circuit trip unit  Mounting/Wirring  Mo  | with multi-phase operation at AC rated value   | 300 V  |
| design of the housing dustproof, waterproof & resistant to corrosion  Circuit Breaker  Type of the motor protection  operational current of motor circuit breaker rated value  adjustable current response value current of instantaneous short-circuit trip unit  Mounting-witring  mounting position  fastening method  type of electrical connection for supply voltage line-side  type of oronectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder standard for conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder standard for conductor for load-side outgoing feeder standard for conductor for load-side outgoing feeder AWG cables single or multi-stranded temperature of the conductor at magnet coil for AWG cables for auxiliary contacts sightening torque [tbrin] at a contactor for auxiliary contacts sightening torque [tbrin] at contactor for suxiliary contacts sightening torque [tbrin] a  | Enclosure  |  |
| ype of the motor protection perfection perfection perfection perfection (magnetic trip only) perfection (unrent of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit wounting position (astering method fastering method fastering method (surface mounting position) (astering method fastering method (surface mounting and installation) (astering method (surface mounting and installation (surface mounting and installation) (astering method (surface mounting and installation (surface mounting and installation (surface mounting and installation (surface mounting and installation (surface mounting and in  | degree of protection NEMA rating   | 4X, 304 stainless steel  |
| type of the motor protection operational current of motor circuit breaker rated value 125 A adjustable current response value current of instantaneous short-circuit trip unit 500 1250 A short-circuit 1250 A  | design of the housing  | dustproof, waterproof & resistant to corrosion   |
| operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position   | Circuit Breaker  |  |
| adjustable current response value current of instantaneous short-circuit trip unit Mountingriving  mounting position  fastening method  type of electrical connection for supply voltage line-side for A/VG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible in the properties of the conductor for supply maximum permissible in the properties of the conductor for supply maximum permissible in the properties of the conductor for supply in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor for load-side outgoing feeder in the properties of the conductor of load-side outgoing feeder in the properties of the conductor of load-side outgoing feeder in the properties of the conductor of load-side outgoing feeder in the properties of the conductor of load-side outgoing feeder in the properties of the conductor of load-side outgoing feeder in the properties of the load outgoing feeder in the prope  | type of the motor protection   | Motor circuit protector (magnetic trip only)   |
| Mounting/wring mounting position  fastening method  Surface mounting and installation  Sype of electrical connection for supply voltage line-side  Sype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  supplementation of the conductor for load-side outgoing feeder  supplementation of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  supplementation of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  supplementation of the conductor for load-side outgoing feeder  AL or CU  Screw-type terminals  supplementation of the conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of connectable conductor at magnet coil  screw-type terminals  tightening torque [lbr-in] at contactor for auxiliary contacts  subject of the conductor at contactor for auxiliary contacts  subject of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  maximum permissible  screw-type terminals  screw-type   | operational current of motor circuit breaker rated value   | 125 A  |
| mounting position  fastening method  type of electrical connection for supply voltage line-side  type of connectable conductor cross-sections at line-side for  AWC cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible  ybe of connectable conductor for supply maximum permissible  pype of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections of AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  type of connectable conductor ross-sections of magnet coil for  AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at outset for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  when the conductor at contactor for auxiliary contacts  for C  type of electrical connection at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type  |  | 500 1250 A   |
| fastening method  type of electrical connection for supply voltage line-side  type of connectable conductor cross-sections at line-side for AWC 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] or load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connectable conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connectable conductor or ses-sections of magnet coil  type of connectable conductor at magnet coil  type of connectable conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil or auxiliary contacts  tightening torque [ibf-in] at contactor for auxiliary contacts  tightening torque [ibf-in] at contactor for auxiliary contacts  type of electrical connection for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of connectable conductor or coss-sections at overload relay  type of connectable conductor or coss-sections at overload relay  type of connectable conductor or coss-sections at overload relay  type of connectable conductor or coss-sections at overload relay  type of connectable conductor or coss-sections at ov  | Mounting/wiring  |  |
| fastening method  type of electrical connection for supply voltage line-side  bype of connectable conductor cross-sections at line-side for  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] at magnet coil  type of connectable conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  maximum permissible  material of the conductor or load-side outgoing feeder  type of electrical connection of magnet coil  type of connectable conductor for load-side outgoing feeder  maximum permissible  material of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  type of connectable conductor rorses-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of electrical connection of a contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of electrical connection at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of onnectable conductor cross-sections at overload relay  type of connectable conductor cross-sections at o  | mounting position  | Vertical   |
| type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply 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 for sace sections for AWG cables for load-side outgoing feeder Sor WG cables for load-side outgoing feeder Sor WG cables for load-side outgoing feeder MG cables for load-side outgoing feeder Sor WG cables for load-side outgoing feeder Sor WG cables for load-side outgoing feeder Sor WG cables for load-side outgoing feeder MG cables for load-side outgoing feeder MG cables for load-side outgoing feeder AL or CU type of electrical connection of magnet coil sightening torque [lbf-in] at magnet coil stype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil CU type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts for Cu type of electrical connection at contactor for auxiliary contacts for Cu type of electrical connection at contactor for auxiliary contacts for Cu type of electrical connection at contactor for auxiliary contacts for Cu type of electrical connection at contactor for auxiliary contacts for Cu type of connectable conductor at contactor for auxiliary contacts for Cu type of electrical connection at contactor for auxiliary co  |  | Surface mounting and installation  |
| temperature of the conductor for supply maximum permissible material 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 for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil sorrew-type terminals tightening torque [lbf-in] at magnet coil sorrew-type terminals tightening torque [lbf-in] at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil sorrew-type terminals tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts the permissible of electrical connection for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay type of connectable conductor cross-sections at overload relay to a connectable conductor cross-sections at overload rel  | type of electrical connection for supply voltage line-side   | Box lug  |
| 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 [libf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil screw-type terminals temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts to the conductor at magnet coil connection for auxiliary contacts to the conductor at contactor for   | **   | 1x (10 AWG 1/0 AWG)  |
| material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil sightening torque [libf-in] at magnet coil type of onnectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum type of electrical connection for auxiliary contacts type of onnectable conductor are magnet coil cutype of electrical connection for auxiliary contacts type of connectable conductor are contactor for auxiliary contacts type of connectable conductor are contactor for auxiliary contacts type of connectable conductor are contactor for auxiliary contacts type of connectable conductor are contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of or electrical connection at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay type of connectabl  | temperature of the conductor for supply maximum permissible  | 75 °C  |
| tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay type of connectable conductor cr  |  | AL or CU   |
| tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay type of connectable conductor cr  |  | Box lug  |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder 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 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 75 °C 2x (16 12 AWG)  The conductor at magnet coil 8x (16 12 AWG)  The conductor at magnet coil 9x (16 14 AWG), 2x (18 16 AWG)  The conductor at contactor for auxiliary contacts 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  The conductor at contactor for auxiliary contacts 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  The conductor at contactor for auxiliary contacts 2x (16 14 AWG), 2x (18 16 AWG)  The conductor at contactor for auxiliary contacts 2x (18 16 AWG)  The conductor at contactor for auxiliary contacts 3x (18 AWG)  The conductor at contactor for auxiliary contacts 3x (18 AWG)  The conductor at contactor for auxiliary contacts 3x (18 AWG)  | ,  | ÿ.   |
| temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [ibf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [ibf-in] at contactor for auxiliary contacts  temperature of the conductor or at magnet coil  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  to u. 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary  contacts  tightening torque [ibf-in] at overload relay for auxiliary contacts  tightening torque [ibf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)   | type of connectable conductor cross-sections for AWG cables  |  |
| material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil screw-type terminals  tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts contactor for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)   | temperature of the conductor for load-side outgoing feeder   | 75 °C  |
| type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  type of electrical connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  | maximum pormiodisio  |  |
| tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  type of electrical connection for auxiliary contacts  temperature of the conductor for auxiliary contacts  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)   | material of the conductor for load-side outgoing feeder  | AL or CU   |
| type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  temperature of the conductor at contactor for auxiliary contacts  to understanded  temperature of the conductor at contactor for auxiliary contacts  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (16 12 AWG)  2x (16 12 AWG)  CU  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  75 °C  CU  Screw-type terminals  CU  Screw-type terminals  Cu  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  |  |  |
| temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)   | type of electrical connection of magnet coil   | Screw-type terminals   |
| material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for   | Screw-type terminals 5 12 lbf-in   |
| type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  Screw-type terminals  | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum   | Screw-type terminals 5 12 lbf·in 2x (16 12 AWG)  |
| tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  | type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible   | Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C  |
| type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  1x (12 AWG), 2x (16 14 AWG)  75 °C  CU  Screw-type terminals  7 10 lbf-in   | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil  | Screw-type terminals 5 12 lbf·in 2x (16 12 AWG) 75 °C CU   |
| temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts   | Screw-type terminals 5 12 lbf·in 2x (16 12 AWG) 75 °C CU Screw-type terminals  |
| material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)  | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for  | Screw-type terminals 5 12 lbf·in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf·in   |
| type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)   | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts  | Screw-type terminals 5 12 lbf·in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf·in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)   |
| type of connectable conductor cross-sections at overload relay 2x (20 14 AWG)   | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible  | Screw-type terminals  5 12 lbf·in  2x (16 12 AWG)  75 °C  CU  Screw-type terminals  10 15 lbf·in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  75 °C                           |
|   | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary          | Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C CU                                |
|   | type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts | Screw-type terminals  5 12 lbf·in  2x (16 12 AWG)  75 °C  CU  Screw-type terminals  10 15 lbf·in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  75 °C  CU  Screw-type terminals |

| 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  |
| maximum short-circuit current breaking capacity (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   |                                     |

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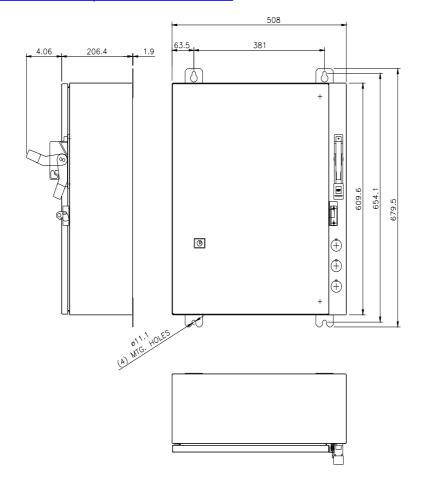
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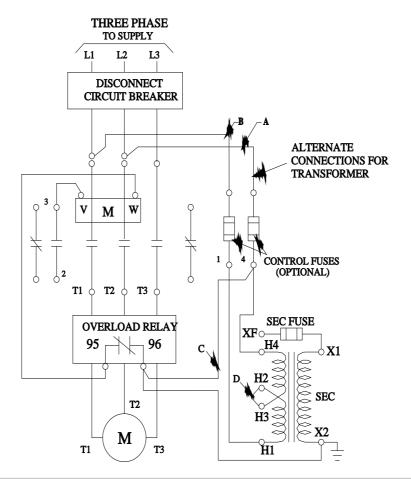
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