## SIEMENS

## Data sheet

## US2:88GUGP4FH

	Reduced voltage pump panel, Two step part winding, Size 2 1/2, 460V 3-phase motor voltage, Solid-state overload relay, OLR amp range 25-100A, 380-440/440-
	480V 50/60Hz coil, 200A fusible disconnect, 200A/600V fuse clip, HOA Sel Sw.
and list brand a sec	<(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use
product brand name	Class 88
design of the product	Reduced voltage pump panel with fusible disconnect - Two step part winding
special product feature	Latest technology in arc quenching to extend contactor life; Same coil voltage is AC or DC
General technical data	
weight [lb]	120 lb
Height x Width x Depth [in]	55 × 28 × 11 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
at 200/208 V rated value	0 hp
• at 220/230 V rated value	0 hp
• at 460/480 V rated value	60 hp
• at 575/600 V rated value	0 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	460 V
operational current at AC at 600 V rated value	60 A
mechanical service life (operating cycles) of the main contacts typical	1000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	7
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
• at DC rated value	0 0 V
<ul> <li>at AC at 50 Hz rated value</li> </ul>	380 440 V
• at AC at 60 Hz rated value	440 480 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 VA
operating range factor control supply voltage rated value of magnet coil	0.85 1.1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	

product function         Yes           • ownade protection         Yes           • asymmetry detection         Yes           • actional resol         Yes           • actional resol         Yes           • actional resol         Yes           • actional resol         Yes           adjustable current response value current of the current- dippender of verderal relases on maximum         3 is           reflection repeat actions of a value current- dippender of verderals of auxiliary contacts of overload relay         1           number of NC contacts of auxiliary contacts of overload relay         1           number of NC contacts of auxiliary contacts of overload relay         5 A           • at C cl 250 V         5 A           • at C cl 250 V         5 A           • at C cl 250 V         5 A           • with midp-ohase operation at AC rated value         900 V           • with midp-ohase operation at AC rated value         900 V           • elefostore         200A / 600V           eaging of tax hole         Class R           usatiant ovalitage (Ui)
• phase failure detectionYes• squnnt failure detectionYes• start functionYes• external reselYes• external reselYesadjustable current response value current of the current- dependent oriendal releaseZo100 Arependent oriendal releaseZo100 Arependent oriendal releaseSo
extend     Yes       • extend reset     Yes       extend reset     Yes       reset function     Manual, automatic and remote       fing class     CLASS 5 / 10 (factory set) / 20 / 30       adjustable current response value current of the current- dependent overlaad release     25 100 A       fing prime at phase-base maximum     3 s       refeature reprotective coaling on printed-circuit board     Yes       product feature protective coaling on printed-circuit board     Yes       number of NC contacts of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     5 A       et al Co at 250 V     5 A       orticat rating of auxiliary contacts of overload relay according to     5 AQ #600VAC (B600), 1A@ 250VDC (R300)       instation voltage (U)     600 V       overlaat rating of auxiliary contacts of avalues     5 AQ #600V       offician traing of fuse holder     Class R fuse clips       operation dates of the fuse ink     Class R       operation dates of the fuse ink     Class R       operation dates of the fuse ink     Class R       operating dates of the fuse
• lest function         Yes           reset function         Manual, automatic and remote           fip class         CLASS 5 / 10 (factory set) / 20 / 30           adjustable current response value current of the current- dependent overload release         15           dependent overload release         10 A           tripping time al phas-loss maximum         3 s           relative regeat accuracy         15           number of NC contexts of availiary contacts of overload reley         1           number of NC contexts of availiary contacts of overload reley         1           earts of a availiary contacts of overload reley         1           earts of availiary contacts of overload reley         5 A           earts of availiary contacts of overload reley         5 A           earts of a availiary contacts of overload reley         5 A           earts of a availiary contacts of overload reley         5 A           earts of a availiary contacts of overload reley according to         5 A           i at C at 250 V         1 A           response value a dwath disconnector         200 / 200
external resel         Yes           reset function         Manual, autonation demode           trip class         CLASS 5 / 10 (factory set) / 20 / 30           adjustable current response value current of the current- dependent overlad releases         25 100 A           tripping time at phase-loss maximum         3 s           product hature protective coating on printed-scruut baurd         Yes           number of NC contacts of auxiliary contacts of overload relay         1           outnet of NC contacts of auxiliary contacts of overload relay         1           oparational current of auxiliary contacts of overload relay         1           outnet of NC contacts of auxiliary contacts of overload relay         5 A           • at DC at 250 V         1 A           contact taing di auxilary contacts of overload relay         5 A           • at DC at 250 V         1 A           soutDC at 250 V         1 A           outnot othoge (U)         • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V         600 V           • with single-phase operation at AC rated value         5 A         4 as R tuse clas           operating class of the tuse link         Class R tuse class         Class R           design of the holder         Class R tuse clas </td
reset function         Manual, automatic and remote           trip class         CLASS 5 / 10 (lactory set) / 20 / 30           adjustable current response value current of the current- dependent overload release         25 100 A           tripping time at phase-loss maximum         3 s           relative repeat accuracy         1 %           product frature protective coating on printed-circl board         Yes           number of NC contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           • at AC at 600 V         5 A           • at AC at 600 V         5 A           • at CO at 200 V         1 A           construct rating of auxiliary contacts of overload relay         500 V           • at CO at 200 V         1 A           context rating of auxiliary contacts of overload relay according to UL         600 V           • with multi-phase operation at AC rated value         800 V           • with multi-phase operation at AC rated value         800 V           • with multi-phase operation at AC rated value         800 V           • degree of protection NEMA rating of the enclosure         NEMA 3/3R           degree of protection NEMA rating of the enclosure         NEMA 3/3R           Mountingu/witrent         90 Surface mounting an instal
Itip class         CLASS 5 / 10 (factory set) / 20 / 30           adjustable current response value current of the current- dependent vertical releases         25 100 Å           Tripping time at phase-loss maximum         3 s           product leasure protective coating on printed-circuit board         Yes           number of NC contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         5 Å           • at DC at 250 V         5 Å           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         5 Å           • eat DCat 25 with disconnector         200 Å / 600 V           • deasing of the housing         Weathore of fo
adjustable current response value current of the current- degeneration voltad release       25 100 A         tripping time at phase-loss maximum       3 s         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1%         product feature protective coaling on printed-circuit board       Yes         number of NC contracts of auxiliary contracts of overload relay       1         operational current of auxiliary contracts of overload relay       1         operational current of auxiliary contracts of overload relay       1 A         cat Cat 280 V       5 A         at Cat 280 V       1 A         contract rating of auxiliary contracts of overload relay according to U.       5A         uith single-phase operation at AC rated value       600 V         ewith multi-phase operation at AC rated value       200A / 600V         design of fuse holder       Class R fuse clips         operating class of the tuse link       Class R         design of fuse holder       Class R fuse clips         design of fuse holder       Suriace mounting and installation         type of protection NEMA arang of the enclosure       NEMA 33R         design of the housing       Vertical         fistering method       Suriace mounting and installation         type of protection for supply vo
dependent overload release         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-dircuit board         Yes           number of NC contacts of audiary contacts of overload relay         1           operational current of audiary contacts of overload relay         1           operational current of audiary contacts of overload relay         1           operational current of audiary contacts of overload relay         5 A           • at AC at 600 V         5 A           • at DC at 250 V         1 A           contact rating of audiary contacts of overload relay according to         5 A@@00VAC (B600), 1 A@250VDC (R300)           U.         insulation votage (U)         5 A           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         300 V           Disconnect Switch         Class R           response value of switch disconnector         200A / 600V           degree of protection NEMA rating of the enclosure         NEMA 3/3R           delays of the housing         Weather proof for outdoor use           Mountingwing         Yee for advector for supply voltage line-side           gove of connectable conductor rorse-sections at line-side for         Xi (& MXC,
relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contracts of overhoad relay       1         operational current of auxiliary contracts of overhoad relay       1         operational current of auxiliary contracts of overhoad relay       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contracts of overhoad relay according to       5 A@@00V/C (B600), 1 A@250VDC (R300)         U.       insulation voltage (U)       • SA         • with single-phase operation at AC rated value       600 V         0 Sconnect Switch       200A / 600V         response value of switch disconnector       200A / 600V         design of fuse holder       Class R fuse clips         opperating class of the fuse link       Class R fuse clips         degree of protection NEMA rating of the enclosure       NEMA 3/3R         dedigen of the housing       Weather proof for outdoor use         Mounting witing       To 'C         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor for supply voltage line-side       Box lug         type of connectable conductor for supply adminum permissible       75 °C         m
product feature protective coating on printed-circuit board     Yes       number of NC contacts of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     1       operational current of auxiliary contacts of overload relay     5 A       • at AC at 600 V     5 A       • at AC at 500 V     5 A       • at AC at 500 V     5 A       • ot AC at 250 V     1 A       contacts of auxiliary contacts of overload relay according to UL     5A@600VAC (B600), 1A@250VDC (R300)       UL     insulation voltage (UI)     600 V       • with single-phase operation at AC rated value     600 V       • with multi-phase operation at AC rated value     300 V       Disconnect Switch     7       response value of switch disconnector     200A / 600V       design of fuse holder     Class R fuse clips       operating class of the fuse link     Class R       design of the housing     Weathcar mounting and installation       Mounting/wiring     75 °C       mounting position     Varical       target of concactable conductor for load-side outgoing feeder     45 45 lbrlin       type of electrical connection for supply waitinge of multi-standed     14 42 AWG)       to footact do conductor for load-side outgoing feeder     75 °C       tof connectable conductor for load-side outgoing feeder
number of NC contacts of auxiliary contacts of overload relay       1         number of NO contacts of auxiliary contacts of overload relay       1         e at AC at 600 V       5 A         • at DC at 250 V       1 A         Socntact stating of auxiliary contacts of overload relay according to       5 A@800VAC (8000), 1A@250VDC (R300)         UL       insulation voltage (U)       5 A         • with single-phase operation at AC rated value       500 V         9 Socntact Stating on at AC rated value       500 V         9 Socntact Stating on at AC rated value       500 V         9 Socntact Stating on at AC rated value       500 V         9 Socntact Stating on at AC rated value       500 V         9 Socntact Stating of the solution       Class R fuse clips         0 operating class of the fuse link       Class R         Enclosure       NEMA 3/3R         Mounting volting       Weather proof for outdoor use         Mounting volting       Surface mounting and installation         type of connectable conductor cross-sections at line-side for       1/4 (8 AWG
number of NG contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       5 A         • at A C at 500 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5 A         unisultation voltage (UI)       5 A         • with molti-phase operation at AC rated value       600 V         • with molti-phase operation at AC rated value       600 V         response value of switch disconnector       200A / 600V         response value of switch disconnector       200A / 600V         design of fuse holder       Class R fuse clips         operating class of the fuse link       Class R         design of the housing       Wentical         Mounting writing       Wentical         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor for supply voltage line-side for AXVC cebles single or multi-stranded       1x (6 AWG 300 Kcmil)         Vype of ectrical connection for supply waiting negative for the colubulation       1ype of connectable conductor for supply maximum permissible         type of ectrical connection for supply maximum permissible       7s °C         material of the conductor for load-side outgoing feeder       4s L or CU         type of ect
operational current of auxiliary contacts of overload relay       5 A         • at IA C at 600 V       5 A         • at IC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5 A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (UI)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V       00 V         Disconnect Switch       200A / 600V       design of fuse holder         operating class of the fuse link       Class R fuse clips       operating class of the fuse link         Enclosure       NEMA 3/3R       Weather proof for outdoor use         Mounting/widing       Weather proof for outdoor use       Mounting widing         mounting position       Surface mounting and installation       Upe of electrical connection for supply voltage line-side       Box kug         type of electrical connection for supply maximum permissible       75 °C       7         material of the conductor for load-side outgoing feeder       AL or CU       Surface         type of electrical connection for load-side outgoing feeder       AL or CU       Ype of electrical connection for load-side outgoing feeder         type of electrical connection for load-side outgoing feeder       Srew-type terminals       Stirlin         type of electrical conn
• at AC at 600 V         5 A           • at DC at 250 V         1 A           Contact rating of auxiliary contacts of overload relay according to         5A@600VAC (B600), 1A@250VDC (R300)           Insulation voltage (UI)         • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V         90 V           Disconnect Switch         7         Class R fuse clips         7           response value of switch fuse link         Class R fuse clips         7         7           degree of protection for supply voltage line-side         75 °C         7         7           Material of the conductor of rolad-side outgoing feeder         75 °C         7         7           material of the conductor or sos-sections of rolad-side outgoing feeder         75 °C         7         7           material of the conductor for load-side outgoing feeder         75 °C         7         7         7           material of the conductor for load-side outgoing feeder         75 °C         7         7         7           material of the conductor for load-side outgoing feeder         75 °C         7         7         7           material of the conductor for load-side outgoing feeder         75 °C         7         7         7         7
• at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (U)       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       300 V         Disconnect Switch       200A / 600V         design of fuse holder       Class R fuse clips         opperating class of the fuse link       Class R fuse clips         endosure       NEMA 3/3R         design of the housing       Weather proof for outdoor use         Mounting/wiring       Weather proof for outdoor use         Mounting wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor for supply voltage line-side for AxVG cables single or multi-stranded       Tx (6 AWG 300 Komil)         type of connectable conductor for supply maximum permissible       75 °C         type of electrical connection for load-side outgoing feeder       45 45 lbfin         type of electrical connection for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         for load-side outgoing feeder       12 41 br/in
contact rating of auxiliary contacts of overload relay according to       5A@600VAC (8600), 1A@250VDC (R300)         insulation voltage (U)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         Disconnect Switch       200A / 600V         response value of switch disconnector       200A / 600V         degree of protection NEMA rating of the enclosure       NEMA 3/3R         design of the housing       Weather proof for outdoor use         Mounting/wiring       mounting position         Yeer of encical connection for supply voltage line-side       Box face mounting and installation         type of electrical connection for supply voltage line-side for       1x (6 AWG 300 Kemit)         AWG cables single or multi-stranded       Tx (6 AWG 300 Kemit)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       45 45 lbf in         type of electrical connection for load-side outgoing feeder       44 2 AWG)         for load-side outgoing feeder       45 45 lbf in         type of electrical connection for load-side outgoing feeder       5 °C         material of the conductor for load-side outgoing feeder       5 °C
UL     Insulation voltage (U)       • with single-phase operation at AC rated value     600 V       • with multi-phase operation at AC rated value     300 V       Disconnect Switch     7       response value of switch disconnector     200A / 600V       design of fuse holder     Class R fuse clips       operating class of the fuse link     Class R       Enclosure     6       degree of protection NEMA rating of the enclosure     NEMA 3/3R       design of the housing     Weather proof for outdoor use       Mounting/wiring     7       mounting position     Surface mounting and installation       type of electrical connection for supply voltage line-side     Box lug       type of connectable conductor rors-sections at line-side for AVG cables single or multi-stranded     Tx (6 AWG 300 Kcmil)       type of electrical connection for supply voltage ine-side     Box lug       tightening torque [lbf-in] for load-side outgoing feeder     45 45 lbf-in       type of electrical connection for supply maximum permissible     75 °C       material of the conductor for load-side outgoing feeder     45 45 lbf-in       type of electrical connection for load-side outgoing feeder     45 45 lbf-in       type of electrical connection for load-side outgoing feeder     15 2 kWG)       tor load-side outgoing feeder     45 45 lbf-in       type of electrical con
with single-phase operation at AC rated value     with multi-phase operation at AC rated value     300 V  Disconnect Switch  response value of switch disconnector     200A / 600V  design of fuse holder     Class R fuse clips     operating class of the fuse link     Class R fuse clips     class R fuse clips     class R      ferclosure  degree of protection NEMA rating of the enclosure     NEMA 3/3R      design of the housing     Weather proof for outdoor use  Mounting/wiring     mounting position     Vertical     fastening method     Surface mounting and installation     type of electrical connection for supply voltage line-side     type of electrical connection for supply voltage line-side     type of electrical connection for supply maximum permissible     type of connectable conductor rors-sections at line-side for     Yay of connectable conductor for supply maximum permissible     type of connectable conductor for supply maximum permissible     type of connectable conductor for supply maximum     type of connectable conductor for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     Ts 'C     maximum permissible     material of the conductor for load-side outgoing feeder     Yay (14 2 AWG)     Yay of electrical connection of load-side outgoing feeder     X (16 12 AWG)     X (16 12 AWG)     Yay of electrical connection at angent coil     S 12 librin     Yay of electrical connection at angent coil     S 12 librin     Yay of electrical connection for auximum     Yay of electrical connection at angent coil     S 12 librin     Yay of electrical connection for auximum     Yay of electrical connection for auxi
with multi-phase operation at AC rated value     300 V      Disconnect Switch      response value of switch disconnector     200A / 600V      design of fuse holder     Class R fuse clips     operating class of the fuse link     Class R      Enclosure      degree of protection NEMA rating of the enclosure     MEMA 3/3R      degree of protection NEMA rating of the enclosure     Meather proof for outdoor use      Mounting/wiring     mounting position     Vertical     fastening method     Vype of electrical connection for supply voltage line-side     Ty of connectable conductor cross-sections at line-side for     AL or CU     Type of electrical connection for load-side outgoing feeder     Box lug     tightening torque [lbf-in] for load-side outgoing feeder     AL or CU     Type of electrical connection for load-side outgoing feeder     Ts 'C     material of the conductor for load-side outgoing feeder     Ts 'C     material of the conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     Ts 'C     material of the conductor for load-side outgoing feeder     type of electrical connection for load-side outgoing feeder     Ts 'C     material of the conductor for load-side outgoing feeder     Ts 'C     material of the conductor for load-side outgoing feeder     type of connectable conductor for load-side outgoing feeder     Ts 'C     material of the conductor for load-side outgoing feeder     AL or CU     type of electrical connection of magnet coil     type of connectable conductor cross-sections of magnet coil     type of connectable conductor cross-sections of magnet coil     type of connectable conductor for load-side outgoing feeder     AL or CU     type of electrical connection of magnet coil     type of connectable conductor for load-side outgoing feeder     AL or CU     type of electrical connection at magnet coil     type of electrical connection at magnet coil     type of connectable conductor for axiliary contacts     Screw-type terminals     tightening to
Disconnect Switch           response value of switch disconnector         200A / 600V           design of fuse holder         Class R fuse clips           operating class of the fuse link         Class R           Enclosure            design of the housing         Weather proof for outdoor use           Mounting/wring         Weather proof for outdoor use           mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           type of electrical connection for supply maximum permissible         Tx (6 AWG 300 Kcmil)           AWG cables single or multi-stranded         Tx (6 AWG 300 Kcmil)           temperature of the conductor for supply maximum permissible         Ts °C           material of the conductor for supply maximum permissible         Ts °C           for load-side outgoing feeder         Box lug           type of electrical connectable conductor rors-sections for AWG cables         Tx (14 2 AWG)           for load-side outgoing feeder         AL or CU           type of electrical connection for hoad-side outgoing feeder         AL or CU           type of electrical connection for load-side outgoing feeder         Max 42 IWG)           for load-side outgoing feeder         <
response value of switch disconnector       200A / 600V         design of fuse holder       Class R fuse clips         operating class of the fuse link       Class R         Enclosure       Enclosure         degree of protection NEMA rating of the enclosure       NEMA 3/3R         design of the housing       Weather proof for outdoor use         Mounting/wiring
design of fuse holder       Class R fuse clips         operating class of the fuse link       Class R         Enclosure       Enclosure         degree of protection NEMA rating of the enclosure       NEMA 3/3R         design of the housing       Weather proof for outdoor use         Mounting/wiring       Weather proof for outdoor use         Mounting/wiring       Weather proof for outdoor use         Mounting/wiring       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of connectable conductor cross-sections at line-side for AXG cables single or multi-stranded       1x (6 AWG 300 Kcmil)         due cable conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       Box lug         tightening torque [lbf in] for load-side outgoing feeder       45 45 lbf in         type of connectable conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C </td
operating class of the fuse link       Class R         Enclosure       Methods and the construction NEMA rating of the enclosure       NEMA 3/3R         design of the housing       Weather proof for outdoor use         Mounting/wiring       mounting position       Vertical         fastening method       Surface mounting and installation       type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded       1x (6 AWG 300 Kcmil)         type of connectable conductor for supply maximum permissible       75 °C       material of the conductor for supply         type of connectable conductor for supply maximum permissible       75 °C       material of the conductor for supply         type of connectable conductor for supply       AL or CU       type of connectable conductor for load-side outgoing feeder         box lug       tightening torque [lbf in] for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       45 45 lbf in         type of connectable conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       24 L or CU
Enclosure         NEMA 3/3R           degree of protection NEMA rating of the enclosure         NEMA 3/3R           design of the housing         Weather proof for outdoor use           Mounting/wiring         mounting position           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded         Tx (6 AWG 300 Kcmil)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor ror supply maximum permissible         Box lug           tightening torque [lbf-in] for load-side outgoing feeder         45 45 lbf-in           type of electrical connectable conductor ror Supply maximum permissible         Tx (14 2 AWG)           for load-side outgoing feeder single or multi-stranded         1x (14 2 AWG)           temperature 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 at magnet coil for AL or CU         2x (16 12 AWG)           tightening torque [lbf-in] at magnet coil         5 12 lbF-in           tightening torque [l
degree of protection NEMA rating of the enclosure         NEMA 3/3R           design of the housing         Weather proof for outdoor use           Mounting/wiring
design of the housing       Weather proof for outdoor use         Mounting position       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded       1x (6 AWG 300 Kcmil)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       1x (14 2 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         maximum permissible       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       Screw-type terminals         tightening torque [lbf-in] at magnet coil       5 12 lbf-in         type of electrical connection or magnet coil maximum       75 °C         wWG cables single or multi-stranded
Mounting/wiring           mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded         1x (6 AWG 300 Kcmil)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         Box lug           tightening torque [lbf-in] for load-side outgoing feeder         45 45 lbf-in           type of connectable conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         45 45 lbf-in           type of connectable conductor cross-sections for 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           material of the conductor for load-side outgoing feeder         AL or CU           type of electrical connection of magnet coil         5 c 12 lbf-in           tightening torque [lbf-in] at magnet coil         5 12 lbf-in           type of connectable conductor at magnet coil for AWG cables single or multi-stranded         2x (16 12 AWG)           tightening torque [lbf-in] at magnet coil maximum permissible <t< td=""></t<>
mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded         1x (6 AWG 300 Kcmil)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for load-side outgoing feeder         Box lug           tightening torque [lbf-in] for load-side outgoing feeder         45 45 lbf-in           type of connectable conductor for load-side outgoing feeder         1x (14 2 AWG)           temperature of the conductor for load-side outgoing feeder         1x (14 2 AWG)           temperature of the conductor for load-side outgoing feeder         75 °C           maximum permissible         75 °C           maximum permissible         75 °C           maximum permissible         1x (14 2 AWG)           temperature of the conductor for load-side outgoing feeder         1x (14 2 AWG)           tightening torque [lbf-in] at magnet coil         5 12 lbf-in           type of electrical connectable conductor ross-sections of magnet coil for AWG cables single or multi-stranded         2x (16 12 AWG)           tughtening torque [lbf-in] at magnet coil         5 12 lbf-in           type of electrical
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for load-side outgoing feeder single or multi-stranded75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded2x (16 12 AWG)temperature of the conductor at magnet coil maximum permissible75 °Cmaterial of the conductor at magnet coil maximum permissible75 °Ctuppe of electrical connection at contactor for auxiliary contactsCUtightening torque [lbf·in] at contactor for auxiliary contacts10 15 lbf·in
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tightening torque [lbf-in] at magnet coil       5 12 lbf-in         type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded       2x (16 12 AWG)         temperature of the conductor at magnet coil maximum permissible       75 °C         material of the conductor at magnet coil       CU         type of electrical connection at contactor 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 of magnet coil for       2x (16 12 AWG)         AWG cables single or multi-stranded       75 °C         temperature of the conductor at magnet coil maximum       75 °C         material of the conductor at magnet coil       CU         type of electrical connection at contactor for auxiliary contacts       Screw-type terminals         tightening torque [lbf-in] at contactor for auxiliary contacts       10 15 lbf-in
temperature of the conductor at magnet coil maximum       75 °C         material of the conductor at magnet coil       CU         type of electrical connection at contactor for auxiliary contacts       Screw-type terminals         tightening torque [lbf-in] at contactor for auxiliary contacts       10 15 lbf-in
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type of electrical connection at contactor for auxiliary contacts       Screw-type terminals         tightening torque [lbf-in] at contactor for auxiliary contacts       10 15 lbf-in
tightening torque [lbf-in] at contactor for auxiliary contacts 10 15 lbf-in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible
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

for AWG cables for auxiliary contacts single or multi-stranded	
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)	)

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