## SIEMENS

## Data sheet

## US2:14GUG32WH



Non-reversing motor starter, Size 2 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 25-100A, Non-combination type, Encl. type 4X 304 S. Steel, Water/dust tight noncorrosive, Standard width enclosure

Figure	simi	lar

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay; Half-size starter
General technical data	
weight [lb]	14 lb
Height x Width x Depth [in]	16 × 8 × 6 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	
<ul> <li>during storage</li> </ul>	-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	15 hp
• at 220/230 V rated value	20 hp
• at 460/480 V rated value	30 hp
• at 575/600 V rated value	30 hp
Contactor	
size of contactor	Controller half size 2 1/2
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	60 A
mechanical service life (switching cycles) of the main contacts typical	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	

• • Al Ca EG bit Protection value         40         .480 V           apparent hock-up power of magnet coil at AC         28 VA           apparent hock-up power of magnet coil at AC         28 VA           apparent hock-up power of magnet coil at AC         28 VA           apparent hock-up power of magnet coil related to the provertal drop-oul voltage of magnet coil related to the provertal drop-oul voltage of magnet coil related to the provertal drop-oul voltage of magnet coil related to the product new         50 %           OP-F-dely trime         10         -2 a me           Overtad relation         Yas           • overtad protection         Yas </th <th></th> <th></th>		
Indian power at AC maintain         B 6 W           apparent locking power of magnet coil at AC         248 VA           apparent locking power of magnet coil at AC         25 VA           apparent locking power of magnet coil at AC         25 VA           apparent locking power of magnet coil at AC         25 VA           apparent locking power of magnet coil related to the         50 %           OPF-dotage immediate coil related to the         50 %           OP-dotage immediate coil related to the         50 %           OVertobal relate         10 24 ms           Overtobal relate         Yes           • evelop protect function         Yes           • evelop at late detection         Yes <td>• at AC at 50 Hz rated value</td> <td>380 440 V</td>	• at AC at 50 Hz rated value	380 440 V
apparent holik-up power of magnet coll at AC         218 VA           apparent holik-up power of magnet coll at AC         25 VA           or magnet coll prover of magnet coll related to the prover of magnet coll related to the conduct or the coll to the prover of magnet coll related to the prover of magnet coll related to the prover of magnet coll related to the conduct or the coll to the conduct or the and prover of magnet coll the conduct or the and the conduct or t		
apparent holding power of magnet coll at AC         25 VA           operating range factor control supply voltage rated value         0.65 1.1           of magnet coll         50 %           mpott voltage         50 %           OV-folday time         19 28 ms           OFF-folday time         10 24 ms           Overload ratay         78           overload protection         Yes           • symmetry detection         Zs		
operating range factor concle supply voltage rated value of magnet col         0.85 1.1           percential drop-out voltage of magnet col related to the propt voltage         50 %           ON-delay time         19 29 ms           OVEr-delay time         10 24 ms           Overload rolay         78 %           orgen of rates         78 %           orgen of rate of rates         78 %           orgen of rates         78 %           product frasture ordective coaling on printed-circuit baad         1 %           product frasture ordective coaling on printed-circuit baad         1           orgen of rates         78 %           product frasture ordective coaling on printed-circuit baad         1           orgen of rates         78 %		
of magnet col       50 %         Precental dorp-cut voltage of magnet coll related to the input voltage       50 %         OVE-delay time       10 24 ms         OVE-delay time       10 24 ms         Overload relay       Product Anction         • overload protection       Yes         • asymmetry detection       Yes         • asymmetry detection       Yes         • asymmetry detection       Yes         • asymmetry detection       Yes         • ester function       Yes         • ester function       Yes         • ester function       Yes         reset function       Yes         repart failed detection       Yes         • ester function       Manual, automatic and remote         trip class       Glubable current response value current of the current-dipondent bertoad relay         topping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product failery orbeticive coaling on printed-curcuit bard       Yes         number of NC contacts of overload relay       1         relay       1         number of NC contacts of overload relay       5 A         • at D C at 250 V       5 A         • at D C at 250 V       5		
input valtage         19 29 mš           OF-folip time         10 24 ms           Overload relay         19 24 ms           Overload relay         19 24 ms           overload protection         Yes           • ophase failure detection         Yes           • ground fluct detection         Yes           • ground fluct detection         Yes           • eset function         Yes           • eset function         Yes           • eset function         Menual, automatic and remote           flip class         CLASS 5 / 10 / 20 (factory set) / 30           adjustable current response value current of the current.         25 100 Å           product feature protective coates of auxiliary contacts of overload         1           relative ropeat accuracy         1%           product rating of auxiliary contacts of overload         1           relative protection of auxiliary contacts of overload relay         5 Å           operational current of auxiliary contacts of overload relay         5 Å           operational current of auxiliary contacts of overload relay         5 Å@@OVAC (B800), 1A@250VDC (R300)           i at C at 250 V         1A           ornator taking or theousing         Dust-tight, watertight & corrosion resistant           Mounting/wint	of magnet coil	
OFF-delay time     10 24 ms       Overload ratay     Yes       • overload protection     Yes       • phase fibline detection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • external reset     Yes       • into function     Yes       • external reset     Yes       • relative reports value current of the current-     dependent overload relaxe       relative repeat accuracy     1%       product feature protective coating on printed-circuit board     1%       operational current of auxiliary contracts of overload     1       number of NC contracts of auxiliary contracts of overload relay     5 A       • at C at 260 V     1 A       contract rating of auxiliary contracts of overload relay     5A@@00VAC (B600), 1A@250VDC (R300)       • with multi-phase operation at AC rated value     500 V       • at C at 260 V     1A       contract rating of auxiliary contracts of overload relay     5A@@00VAC (B600), 1A@250VDC (R300)       • at C at 260 V     1A       operational current of auxiliary contracts of overload relay     5A@@00VAC (B600, 1A@250		50 %
Overlaad raisy         Yes           product function         Yes           • ophrase failure detection         Yes           • asymmetry detection         Yes           • asymmetry detection         Yes           • external reset         Yes           • external reset         Yes           • external reset         Yes           reset function         Yes           reset function         Yes           represent function         Yes           represent function         Manual, automatic and remote           htpolage         CLASS 57 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent orwold release         25 100 A           relative represent accuracy         Yes           product feature protective coating on printed-circuit board         1           number of NC contacts of auxiliary contacts of overload relay         1           ortact rating of auxiliary contacts of overload relay         5A           inficience	ON-delay time	19 29 ms
product function     Yes       • overfoad protection     Yes       • phase fiblic detection     Yes       • asymmetry detection     Yes       • and thild detection     Yes       • external reset     Yes       reset function     Yes       thigh staff and the detection     Yes       reset function     Yes       trip loss     CLASS 5 / 10 / 20 (factory set) / 30       adjustable current response value current of the current-     25 100 A       dependent vertoad release     1%       mumber of NC contacts of auxiliary contacts of overload     1       relative repeat accuracy     1       product fatury protective coaling on printed-circuit board     1       relative repeat accuracy     1       product fatury protective coaling on printed-circuit board     1       relative repeat accuracy     1       product fatury contacts of overload relay     5.A       at C at 260 V     1A       contact rating of auxiliary contacts of overload relay     5.A       eadorum     300 V       insulation voltage (II)     5.A       eadorum     5.A       at C at 260 V     1A       contact rating of auxiliary contacts of overload relay     5.A       i at C at 260 V     1A       ordination voltage (III	OFF-delay time	10 24 ms
voerload protection     Yes     voerload protection     Yes     vagametry detection     vagametry detection     Yes     vagametry detection     vagametry     vagametry detection     vagametry     vagametry detection     vagametry     vagametry detection     vagametry     vag	Overload relay	
Phase failure detection     Yes     asymmetry detection     Yes     result distributed detection     Yes     reset function     Yes     reset     Yes     Yes     Yes     reset	product function	
esymmetry detection     Yes     ground fault detection     Yes     estemal reset     external reset     Yes     ves     external reset     Yes     Yes     ves     external reset     Yes     Yes     CLASS 5 / 10 / 20 (factory set) / 30     Zo     digutable current response value current of the current- dependent overload release     Zo     LOA A     So     digutable current response value current of the current- dependent overload release     Zo     LOA A     So     digutable current response value current of the current- dependent overload release     Tripping time at phase-loss maximum     S     S     ToO A     dependent overload release     Tripping time at phase-loss maximum     S     relative repeat accuracy     T     Yes     rounber of NC contacts of auxiliary contacts of overload     telay     rounber of NC contacts of auxiliary contacts of overload     telay     rounber of NC contacts of auxiliary contacts of overload     telay     rounber of NC contacts of overload relay     st AC at 600 V     sA     at DC at 250 V     1A     contact rating of auxiliary contacts of overload relay     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value     300 V     with multi-phase operation at AC rated value	<ul> <li>overload protection</li> </ul>	Yes
	<ul> <li>phase failure detection</li> </ul>	Yes
	<ul> <li>asymmetry detection</li> </ul>	Yes
• external reset         Yes           reset function         Manual, automatic and remote           ify class         CLASS 5 / 10 (factory set) / 30           adjustable current response value current of the current- dependent overload release         3 s           ifping time at phase-loss maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1           rumber of NC contacts of auxiliary contacts of overload relay         1           operational current of suxiliary contacts of overload relay         1           operational current of suxiliary contacts of overload relay eat AC at 600 V         5 A           at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay eat DC at 250 V         5 A           insulation voltage (Ui)         insulation voltage (Ui)           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         300 V           Enclosure         1           degree of protection NEMA rating         4X. 304 stainless steel           design of the housing         Dust-tight, waterlight & corrosion resistant           Mounting/wring         Surface mounting and installation           type of electrical connection for supply voltage lin	<ul> <li>ground fault detection</li> </ul>	Yes
reset function       Manual, automatic and remote         trip class       CLASS 5 / 10 / 20 (factory set) / 30         adjustable current response value current of the current- dependent overload release       Z100 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         operational current of auxiliary contacts of overload relay       1         • at DC at 250 V       1A         contact raing of auxiliary contacts of overload relay       5A         according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (UI)       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       500 V         featosure       600 V         • with multi-phase operation at AC rated value       500 V         mounting position       Vertical         fastering method       Vertical         type of electrical connection for supply voltage line-side       50 vultiget         type of electrical connection for supply woltage line-side       50 vultiget         type of electrical connection for supply maximum       75	test function	Yes
trip class       CLASS 5 / 10 / 20 (factory set) / 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 feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         operational current of auxiliary contacts of overload relay       1         • at DC at 250 V       5 A         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       500 V         eacording to UL       500 V         insulation voltage (UI)       • with single-phase operation at AC rated value       500 V         ewith multi-phase operation at AC rated value       500 V         felsy       000 V       500 V         exercise       500 V       500 V         felsy       000 V       500 V         felsy       1000 V       500 V	external reset	Yes
adjustable current or value current of the current.       25 100 Å         dependent overfood release       75 °C         mounting of the conductor for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C	reset function	Manual, automatic and remote
dependent overload release       3 s         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board relay       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 DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5 A         • at DC at 250 V       1 A         insultation voltage (U)       600 V         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       200 V         degree of protection NEMA rating       24X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wring       25 °C         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [bf-in] for load-side outgoing feeder       45 45 lbF-in	trip class	CLASS 5 / 10 / 20 (factory set) / 30
relative repeat accuracy       1 %         product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1         operational current of auxiliary contacts of overload relay       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay       5 A@         according to UL       5 A@         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V       300 V         Enclosure       edgree of protection NEMA rating       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wring       mounting position       Vertical         Type of electrical connection for supply voltage line-side       Box lug         tightening torque [IbF-in] for supply       45 45 lbF-in         type of electrical connection for supply maximum       75 °C         meatraid of the conductor for load-side outgoing feeder       Box lug         tightening torque [IbF-in] for load-side outgoing feeder		25 100 A
product feature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload relay       1         number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       1         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5a@600VAC (B600), 1A@250VDC (R300)         insulation voitage (Ui)       600 V         • with multi-phase operation at AC rated value       600 V         edgree of protection NEMA rating       600 V         degree of protection NEMA rating       Dust-tight, watertight & corrosion resistant         Mounting/wiring       Dust-tight, watertight & corrosion resistant         Mounting voiting method       Surface mounting and installation         type of connectable conductor for supply voltage line-side at AVG cables single or multi-stranded       1x(14 - 2 AWG)         at AVG cables single or multi-stranded       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder       75 °C         Maximum permissible       75 °C         material of the conductor for load-side outgoin	tripping time at phase-loss maximum	3 s
number of NC contacts of auxiliary contacts of overload relay       1         number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       1         at A C at 600 V       5 A         • at A C at 600 V       5 A         • at D C at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V       300 V         Enclosure       4X, 304 stainless steel       600 V         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       Multi-trace mounting and installation         Mounting/wiring       Vertical         mounting position       Sk Lig         type of electrical connection for supply voltage line-side       Box lug         type of connectable conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         tightening torque [lbf-in] for load-side outgoing feeder       75 °C         type of electrical connection for load-side outgoing feeder       75 °C         type	relative repeat accuracy	1 %
relay       1         number of NO 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 DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to IL.       5A@600VAC (B600), 1A@250VDC (R300)         insultation voltage (Ui)       • with single-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       600 V         • 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       600 V         • 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       500 V         • mounting voition       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       Box lug         tightening torque [lbf-in] for supply       45 45 lbf-in         type of electrical connection for load-side outgoing feeder       45 45 lbf-in <td>product feature protective coating on printed-circuit board</td> <td>Yes</td>	product feature protective coating on printed-circuit board	Yes
relay         operational current of auxiliary contacts of overload relay         • at AC at 600 V         • at DC at 250 V         1 A         contact rating of auxiliary contacts of overload relay according to UL         insulation voltage (Ui)         • with single-phase operation at AC rated value         • with single-phase operation at AC rated value         600 V         • with multi-phase operation at AC rated value         degree of protection NEMA rating         degree of protection NEMA rating         design of the housing         Mounting/wiring         mounting position         Yertical         fastening method         Surface mounting and installation         tightening torque [lbf:in] for supply voltage line-side         tightening torque [lbf:in] for supply maximum         permissible         material of the conductor for supply maximum         permissible         material of the conductor for supply maximum         tightening torque [lbf:in] for supply         Vpe of connectable conductor for supply         AL or CU         Vpe of connectable conductor for supply maximum         performation of the conductor for load-side outgoing feeder         tightening torque [lbf:in] for load-side outgoing feed		1
• at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL.       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       600 V         degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       mounting position         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       at 45 lbf in         type of connectable conductor for supply waimum       75 °C         permaterial of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       45 45 lbf in         type of connectable conductor for supply       AL or CU         type of connectable conductor for load-side outgoing feeder       1x(14 - 2 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         tightening torque [lbf-in] for load-side outgoing feeder       75 °C         type of connectable conductor for load-side outgoing feeder		1
• 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 (Ui)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       600 V         degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       mounting not the fore according and installation         tightening torque [lbf-in] for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply wating and installation       1x(14 - 2 AWG)         at AWC cables single or multi-stranded       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor for supply       AL or CU         type of connectable conductor for supply       AL or CU         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         temperature of the conductor for load-side	operational current of auxiliary contacts of overload relay	
contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         egree of protection NEMA rating       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       mounting position         Yeer delectrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply voltage line-side       1x(14 - 2 AWG)         at AWG cables single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for supply maximum       75 °C         permissible       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor for supply       AL or CU         type of connectable conductor rorse-sections at AWG       1x(14 - 2 AWG)         temperature of the conductor for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor for supply       AL or CU         type of connectable conductor for load-side outgoing feeder       1x(14 - 2 AWG)         temperature of the conductor for load-side outgoing feeder       5 °	• at AC at 600 V	5 A
according to UL       insulation voltage (Ui)         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         degree of protection NEMA rating       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [Ub*in] for supply       45 45 lb*in         type of electrical connectable conductor fors supply maximum       75 °C         memerature of the conductor for supply       AL or CU         type of connectable conductor cross-sections at AWG       Surface         type of connectable conductor rorse-sections at AWG       1x(14 - 2 AWG)         tightening torque [Ib*in] for load-side outgoing feeder       Box lug         type of connectable conductor for supply       AL or CU         type of connectable conductor for load-side outgoing feeder       1x(14 - 2 AWG)         temperature of the conductor for load-side outgoing feeder       To °C         type of connectable conductor for load-side outgoing feeder       AL or CU         type of ele	• at DC at 250 V	1 A
<ul> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> <li>300 V</li> <li>Enclosure</li> <li>degree of protection NEMA rating</li> <li>design of the housing</li> <li>Dust-tight, watertight &amp; corrosion resistant</li> <li>Mounting/wiring</li> <li>mounting position</li> <li>type of electrical connection for supply voltage line-side</li> <li>Box lug</li> <li>tightening torque [lbF-in] for supply</li> <li>tscabels single or multi-stranded</li> <li>temperature of the conductor for supply maximum</li> <li>previsibile</li> <li>material of the conductor for load-side outgoing feeder</li> <li>type of connectable conductor for load-side outgoing feeder</li> <li>type of load-side outgoing feeder</li> <li>type of connectable conductor for load-side outgoing feeder</li> <li>type of electrical connection of magnet coil</li> <li>screw-type terminals</li> <li>tightening torque [lbF-in] at magnet coil</li> <li>type of electrical connection of magnet coil</li> <li>type of connectable conductor cross-sections of magnet&lt;</li></ul>		5A@600VAC (B600), 1A@250VDC (R300)
• with multi-phase operation at AC rated value       300 V         Enclosure       4X, 304 stainless steel         degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       mounting position         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbF-in] for supply       45 45 lbF-in         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       45 45 lbF-in         type of electrical connectable conductor for supply maximum permissible       1x(14 - 2 AWG)         tightening torque [lbF-in] for load-side outgoing feeder       45 45 lbF-in         type of electrical connectable conductor for supply or tuging feeder       1x(14 - 2 AWG)         tightening torque [lbF-in] for load-side outgoing feeder       50 °C         tightening torque [lbF-in] to ad-side outgoing feeder       1x(14 - 2 AWG)         tightening torque [lbF-in] to ad-side outgoing feeder       5°C         tightening torque [lbF-in] at magnet coil       screw-type terminals<	insulation voltage (Ui)	
Enclosure         degree of protection NEMA rating       4X, 304 stainless steel         design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       mounting position         restering method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       45 45 lbf-in         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       45 45 lbf-in         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of electrical connection for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor ross-sections at AWG       1x(14 - 2 AWG)         cables for load-side outgoing feeder       45 45 lbf-in         type of electrical connection for load-side outgoing feeder       75 °C         maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       4L	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
degree of protection NEMA rating4X, 304 stainless steeldesign of the housingDust-tight, watertight & corrosion resistantMounting/wiringVerticalmounting positionSurface mounting and installationfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf:n] for supply45 45 lbf-intype of connectable conductor cross-sections at line-side1x(14 - 2 AWG)at AWG cables single or multi-stranded75 °Ctemperature of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder80x lugtightening torque [lbf:n] for load-side outgoing feeder45 45 lbf-intype of connectable conductor ross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder1x(14 - 2 AWG)type of connectable conductor roload-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feede	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
design of the housing       Dust-tight, watertight & corrosion resistant         Mounting/wiring       mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         tightening torque [lbf-in] for supply       45 45 lbf-in         type of connectable conductor cross-sections at line-side       1x(14 - 2 AWG)         at AWG cables single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       45 45 lbf-in         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor for load-side outgoing feeder       1x(14 - 2 AWG)         temperature of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       1x(14 - 2 AWG)         temperature 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 lo	Enclosure	
Mounting/wiring           mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side         Box lug           tightening torque [lbf·in] for supply         45 45 lbf·in           type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded         1x(14 - 2 AWG)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for 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         Box lug           tightening torque [lbf·in] for load-side outgoing feeder         45 45 lbf·in           type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded         1x(14 - 2 AWG)           temperature of the conductor for load-side outgoing feeder         75 °C           material of the conductor for load-side outgoing feeder         75 °C           material 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 connection of magnet coil         5 12 lbf·in           tight	degree of protection NEMA rating	4X, 304 stainless steel
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf in] for supply45 45 lbf ·intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)tightening torque [lbf·in] for load-side outgoing feeder1x(14 - 2 AWG)tightening torque [lbf·in] for load-side outgoing feeder1x(14 - 2 AWG)type of connectable conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °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 magnet2 x (16 - 12 AWG)	design of the housing	Dust-tight, watertight & corrosion resistant
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf in] for supply45 45 lbf ·intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)tightening torque [lbf·in] for load-side outgoing feeder1x(14 - 2 AWG)tightening torque [lbf·in] for load-side outgoing feeder1x(14 - 2 AWG)type of connectable conductor for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °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 magnet2 x (16 - 12 AWG)	Mounting/wiring	
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply45 45 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor ross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder45 45 lbf-intype of connectable conductor ross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature 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 magnet2 x (16 - 12 AWG)	mounting position	Vertical
type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supplyBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x(14 - 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feederAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder45 45 lbf-intype of electrical connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °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 magnet2 x (16 - 12 AWG)		Surface mounting and installation
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type of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilAL or CUtightening torque [lbf-in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG)	•	AL or CU
tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded       1x(14 - 2 AWG)         temperature of the conductor for load-side outgoing feeder 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       5 12 lbf-in         type of connectable conductor cross-sections of magnet       2 x (16 - 12 AWG)		
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded1x(14 - 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilAL or CUtightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG)		
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         type of connectable conductor cross-sections of magnet       2 x (16 - 12 AWG)	type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	1x(14 - 2 AWG)
material of the conductor for load-side outgoing feeder       AL or CU         type of electrical connection of magnet coil       screw-type terminals         tightening torque [lbf-in] at magnet coil       5 12 lbf-in         type of connectable conductor cross-sections of magnet       2 x (16 - 12 AWG)		75 °C
tightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG)	material of the conductor for load-side outgoing feeder	AL or CU
tightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2 x (16 - 12 AWG)		screw-type terminals
		5 12 lbf·in
	type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2 x (16 - 12 AWG)

erature of the conductor at magnet coil maximum 79 issible	′5 °C	
rial of the conductor at magnet coil C	CU	
of electrical connection for auxiliary contacts so	crew-type terminals	
ening torque [lbf·in] at contactor for auxiliary contacts	0 15 lbf·in	
of connectable conductor cross-sections at contactor 1 VG cables for auxiliary contacts single or multi- ded	x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	
erature of the conductor at contactor for auxiliary 73 acts maximum permissible	∕5 °C	
rial of the conductor at contactor for auxiliary contacts C	CU	
of electrical connection at overload relay for auxiliary acts	crew-type terminals	
ening torque [lbf·in] at overload relay for auxiliary 7 acts	′ 10 lbf·in	
of connectable conductor cross-sections at overload at AWG cables for auxiliary contacts single or multi- ded	2 x (20 - 14 AWG)	
erature of the conductor at overload relay for auxiliary 78 acts maximum permissible	′5 °C	
rial of the conductor at overload relay for auxiliary C acts	CU	
circuit current rating		
n of the fuse link for short-circuit protection of the circuit required	0kA@600V (Class H or K); 100kA@600V (Class R or J)	
n of the short-circuit trip	hermal magnetic circuit breaker	
king capacity maximum short-circuit current (Icu)		
at 240 V 14	4 kA	
at 480 V 10	0 kA	
at 600 V 10	0 kA	
cate of suitability N	IEMA ICS 2; UL 508; CSA 22.2, No.14	
Further information		
Industrial Controls - Product Overview (Catalogs, Brochures,) www.usa.siemens.com/iccatalog Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14GUG32WH Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:14GUG32WH Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14GUG32WH⟨=en Certificates/approvals		
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