## SIEMENS

## Data sheet

## US2:84GUG95WMF



Duplex starter w/o alternator, Size 2 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 25-100A, 110V 50Hz / 120V 60Hz coil, Combination type, Two 100A circuit breakers, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive

Figu	re si	milar
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product brand name	Class 84
design of the product	Duplex controller with two MCPs without alternator
special product feature	ESP200 overload relay; Half-size controller
General technical data	
weight [lb]	70 lb
Height x Width x Depth [in]	56 × 29 × 10 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
<ul> <li>during storage</li> </ul>	-22 +149 °F
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	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	

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• et AC at 60 Hz rated value     120 - 120 V       holding power of magnet coil at AC     218 VA       apparent policy power of magnet coil at AC     25 VA       apparent policy power of magnet coil at AC     28 VA       apparent policy power of magnet coil at AC     28 VA       apparent policy power of magnet coil at AC     28 VA       apparent policy power of magnet coil at AC     28 VA       of magnet coil     0.85 1.1       of Mcdaty time     0 24 ms       OPF-dealy time     10 24 ms       OPF-dealy time     10 24 ms       OPF-dealy time     Yes       • power of nall     Yes       • power of aug     Yes       product function     Yes       • coverload protection     Yes       • external reset     Yes       • external reset     Yes       • external reset     Yes       • reset function	at DC rated value	00V
Inciding power at AC minimum     8.6 W       apparent holding power of magnet coll at AC     25 VA       operating range factor control supply voltage rated value     60 %       of magnet coll     60 %       percent at top-cut voltage of magnet coll at AC     25 VA       operating range factor control supply voltage rated value     60 %       of magnet coll     60 %       percential top-cut voltage of magnet coll related to the factor of the current of the current of the current factor of the current factor of magnet factor of magnet factor of magnet coll related to the factor of the current factor of magnet factor of the current factor of magnet factor of magnet factor of the current factor of magnet factor of the current factor of magnet factor of the current factor of magnet factor of magnet factor of magnet factor of the current factor of magnet factor of magnet factor of magnet factor of the current factor of magnet factor of magnet factor of magnet factor of the cu		
apparent holding power of magnet coll at AC         248 VA           apparent holding power of magnet coll at AC         25 VA           operating range factor control supply voltage rated value         0.85 1.1           of magnet coll         0.85 1.1           input voltage of magnet coll related to the input voltage of magnet coll related to the input voltage         0.85 1.1           OV-rolating time         19 28 ms           OV-rolating protection         Yes           expanse failure detection         Yes           e.gound fault detection         Yes           relative reparts accuracy         1%           product feature protection         Yes           relative reparts accuracy         1%           product feature protection auxiliary contacts of overload rel		
apparent hoting power of magnet coll at AC         25 VA           operating magnet coll         0.85 1.1           operating magnet coll         0.85 1.1           operating magnet coll         0.95 1.1           operating magnet coll         0.95 1.1           operating magnet coll         0.95 1.1           operating magnet coll         0.9.20 ms           OFF-delay time         10 24 ms           Overload protection         Yes           • overload protection         Yes           • asymmetry detection         Yes           • external reset         Yes           • external reset         Yes           • external reset         Yes           • asymmetry detection         Yes           • external reset         Yes           • external reset         Yes           • reset function         Manual, automatic and remote           trippling time at phase-loss maximum         3 s           relative repeat accuracy         1 %           product function         Yes           • at Co at 250 V         1 %           product function         S A           relative repeat accuracy         1 %           product function         S A      <		
operating range factor control supply voltage rated value dragnet coll         0.85 1.1           percental drop-out voltage of magnet coll related to the input voltage.         50 %.           ON-deby time         19 29 ms.           OV-dotact raisy         0 24 ms           product function         Yes           • overfaad production         Yes           • operfaad production         Yes           • external reset         Yes           trip class         charching of auxiliary contacts of overfoad relase           relative raped accuracy         1 A           oontact raing of auxiliary contacts of overfoad relay         5 A           • at DC at 260 V         1 A           insulti		
of magnet col percent drop-out voltage of magnet coll related to the input voltage. ON-delay time 0		
input voltage         0           ON-relay time         19         28 ms           OFF-delay time         10         24 ms           Coverload rolsy         product function         Yes           • orbade grotection         Yes         • orbade function           • orbade function         Yes         • orbade function           • estimation         Yes         • orbade function           • estimation         Yes         • orbade function           timp class         class 5 / 10 / 20 (factory set) / 30         25 100 A           adjustable current response value current of the current-dependent overload release         25 100 A         25 100 A           relative protective coating on printed-orizant board         Yes         1         1           relative representive coating on printed-orizant board         Yes         1         1           relative representive coating on printed-orizant board         Yes         1         1           relative representive coating on printed-orizant board         Yes         1         1           relative representive coating on orized of overload relay         1         1         1           relative         orized availiary contacts of overload relay         5 A         1         1           oro		0.00 1.1
OFF-delay time       10 24 ms         Overload rolay       •verload protection         • verload protection       Yes         • optional fault detection       Yes         • asymmetry detection       Yes         • est function       Yes         • est function       Yes         • est function       Yes         adjustable current response value current of the current-dependent overload release       CLASS 5 / 10 / 20 (factory set) / 30         adjustable current response value current of the current-dependent overload release       25 100 A         product feature protective coating on printed-circuit baard       Yes         relay       number of NC contracts of auxiliary contacts of overload relay       1         • at DC at 260 V       1A         • at DC at 260 V       5A         • with multis-phase operation at AC rated value       300 V         erelay       adjustable current of auxiliary contacts of overload relay         • at DC at 260 V       5A         • at DC at 260 V </td <td></td> <td>50 %</td>		50 %
Overload relay         product function         Yes           • overload protection         Yes           • inhase failure detection         Yes           • isst function         Yes           • eground fault detection         Yes           • eground fault detection         Yes           • est function         Yes           • est function         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         Yes           trippodur feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay         1%           operational current of auxiliary contacts of overload relay         1           • et IA C at 800 V         5 A           • et IA C at 800 V         5 A           • et IA C at 800 V         5 A           • et IM chains ontacts of overload relay according to UL         500 V           insulation voltage (U)         • et IA C at 800 V           • et IA C at 800 V         5 A           • et IA C at 800 V         5 A           • et IA C at 800 V         5 A           • et IA C at 800 V         5 A	ON-delay time	19 29 ms
product function         Yes           • Vertical protection         Yes           • symmetry detection         Yes           • expression fault detection         Yes           • external reset         Yes           Implicit cars         CLASS 57 10 / 20 (factory set) / 30           adjustable current response value current of the current-         The protection response value current of the current-           relay         number of NC contacts of auxiliary contacts of overload         1           relay         ext DC at 250 V         1A           • at DC at 250 V         1A         SA@600VAC (B600), 1A@250VDC (R300)           insultation voltage (UI)         ext DC at 250 V         1A           • with single-phase operation at AC rated value         300 V           etal Cat 250	OFF-delay time	10 24 ms
vertical protection     ves     vesiting     ves     vesiting     ves     vesiting     ves     ve	Overload relay	
	product function	
e symmetry detection         Yes         yes         yes         yes         external reset         Yes         yes         external reset         Yes         yes         external reset         Yes         yes         adjustable current response value current of the current-         dependent overload release         thip class         adjustable current response value current of the current-         dependent overload release         thip play         adjustable current response value current of the current-         dependent overload release         thip play         product feature protective coating on printed-circuit board         relative repeat accuracy         1%         product feature protective coating on printed-circuit board         relative repeat accuracy         1%         product feature protective coating on printed-circuit board         relative repeat accuracy         1%         product feature protective coating on printed-circuit board         relative repeat accuracy         1%         product feature protective coating on printed-circuit board         relative repeat accuracy         1%         product feature protective coating on printed-circuit board         relative repeat accuracy         1%         operational current of auxiliary contacts of overload         1         relative repeat accuracy         4 at 60 at 800 V         according to UL         insultany contacts of overload relay         according to UL         insultany contacts         for a could be acculouse         dustiproof, waterproof & re	<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           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 relay         1%           number of NC contacts of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay         1           outcat rating of auxiliary contacts of overload relay according to UL         5A           ist DC at 250 V         1A           contact rating of auxiliary contacts of overload relay according to UL         5A           insulation voltage (Ui)         600 V           with multi-phase operation at AC rated value         600 V           solor V         300 V           Enclosure         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         600 V           operational current of motor circuit breaker rated value         100 A           degree of protection         Motor circuit protector (magnetic trip only)           operational current of motor circu	<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-       25 100 A         dependent overload release       3 s         tripping time at phase-loss maximum       3 s         relative protective coating on printed-circuit board       1%         product feature protective coating on printed-circuit board       1         number of NC contacts of auxiliary contacts of overload       1         relative protective coating on printed-circuit board       1         operational current of auxiliary contacts of overload relay       5 A         eta C at 600 V       5 A         eta C at 600 V       1A         contact rating of auxiliary contacts of overload relay       5A@600VAC (B600), 1A@250VDC (R300)         according to UL       600 V         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         gene of protection NEMA rating of the enclosure       dustproof, waterproof & resistant to corrosion         Circuit Breaker       Uppe of the housing       100 A         type of the motor protection       Motor circuit protector (magnetic trip only)       0perational strate value         operational current of motor circuit breaker rated value	<ul> <li>test function</li> </ul>	Yes
trip class         CLASS 5 / 10 / 20 (factory set) / 30           adjustable current response value current of the current- dependent overhoad 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 relay         1           operational current of auxiliary contacts of overload relay         1           operational current of auxiliary contacts of overload relay exit AC at 600 V         5 A           • at AC at 600 V         5 A           • at CD 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 multi-phase operation at AC rated value         600 V           insulation voltage (UI)         600 V           • with multi-phase operation at AC rated value         300 V           Enclosure         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         305 /           disptable current response value current of instantaneous short-circuit trip unit         100 A           315 1000 A         315 1000 A	external reset	
adjustable current response value current of the current-       25 100 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product fleature protective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relay       1         number of NC contacts of auxiliary contacts of overload       1         relay       1         • at AC at 600 V       5 A         • at DC at 250 V       1A         contact rating of auxiliary contacts of overload relay       5A@600VAC (B600), 1A@250VDC (R300)         according to UL       600 V         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       800 V <b>Enclosure</b> NEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dusproof, waterproof & resistant to corrosion <b>Circuit Breaker</b> 100 A         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       305 100 A         instantaneous short-circuit trip unit       315 1000 A		
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       Yes         number of NC contacts of auxiliary contacts of overload       1         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         operational current of auxiliary contacts of overload relay       5 A         operational current of auxiliary contacts of overload relay       5 A         operational current of auxiliary contacts of overload relay       5 A         insulation voltage (UI)       600 V         with single-phase operation at AC rated value       600 V         oov       300 V         exist of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         adjustable current of motor circuit breaker rated value       100 A         adjustable current of motor circuit the autor of supply voltage line-side       15 1000 A         insta	· ·	
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         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@600VAC (B600), 1A@250VDC (R300)         according to UL       insulation voltage (Ui)         • with multi-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V         degree of protection NEMA rating of the enclosure       0ustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       310 A         adjustable current response value current of instantaneous short-circuit breaker rated value       310 A         distantaneous short-circuit breaker rated value       315 1000 A         fastening method       Surface mounting and installation         type of electrical connectoin for supply voltage line-side		25 100 A
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       1         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact raing of auxiliary contacts of overload relay       5 A         • at DC at 250 V       1 A         contact raing of auxiliary contacts of overload relay       5 A         according to UL       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       300 V         Enclosure       degree of protection NEMA rating of the enclosure       dustproof, waterproof & resistant to corrosion         Circuit Broaker       Motor circuit protector (magnetic trip only)       100 A         vype of the motor protection       Motor circuit protector (magnetic trip only)       100 A         mounting/wiring       Vertical       Surface mounting and installation         Mounting/wiring       Vertical       Surface mounting and installation         type of electrical connection for supply voltage line-side       1x (10 AWG 1/0 AWG)         tat WG cables		
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         5 A           • 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)         • with single-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V           degree of protection NEMA rating of the enclosure         MeXA 4X 304 stainless steel enclosure           degree of protection NEMA rating of the enclosure         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         100 A           adjustable current response value current of instantaneous short-circuit trip unit         100 A           Mounting/wiring         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded         1x (10 AWG 1/0 AWG)           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for supply maximum permissible         75 °C		
relay       1         number of NO contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       5 A         • at AC at 600 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       5A@600VAC (B600), 1A@250VDC (R300)         according to UL       600 V         insulation voltage (UI)       600 V         • with single-phase operation at AC rated value       600 V         evolta protection NEMA rating of the enclosure       degree of protection NEMA rating of the enclosure         degree of protection NEMA rating of the enclosure       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         adjustable current of motor circuit breaker rated value       315 1000 A         adjustable current of motor circuit breaker rated value       315 1000 A         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side       Box lug         ype of electrical connection for supply maximum       75 °C         mounting position       Vertical         temperature of the conductor for supply maximum       75 °C		
relay       operational current of auxiliary contacts of overload relay         • at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5A@600VAC (B600), 1A@250VDC (R300)         Insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       NEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor cross-sections at line-side at AVG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         at AWG cables single or multi-stranded       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the cond		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)       • 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         Enclosure       MEMA 4x 304 stainless steel enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         adjustable current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Surface mounting and installation         Type of connectable conductor cross-sections at line-side       1x (10 AWG 1/0 AWG)         type of connectable conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of connectable conductor for supp		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)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       6degree of protection NEMA rating of the enclosure       0kBroof, waterproof & resistant to corrosion         degree of protection NEMA rating of the enclosure       Methods for circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       mounting position         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded       1x (10 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of connectable conductor for supply       AL or CU         type of connection for load-side outgoing feeder       45 45 lbFin	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)       • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       600 V       300 V         Enclosure       NEMA 4x 304 stainless steel enclosure       degree of protection NEMA rating of the enclosure       dustproof, waterproof & resistant to corrosion         Circuit Breaker       Vpe of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         mounting/wiring       Wertical         mounting position       Vertical         tastening method       Surface mounting and installation         type of connectable conductor for supply voltage line-side       1x (10 AWG 1/0 AWG)         at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of connectable outgoing feeder       45 45 lbfrin         type of connectable outgoing feeder       45 45 lbfrin		
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     degree of protection NEMA rating of the enclosure     NEMA 4x 304 stainless steel enclosure       design of the housing     dustproof, waterproof & resistant to corrosion       Circuit Breaker     100 A       type of the motor protection     Motor circuit protector (magnetic trip only)       operational current of motor circuit breaker rated value     100 A       adjustable current response value current of instantaneous short-circuit trip unit     315 1000 A       Mounting/wiring     mounting position       type of electrical connection for supply voltage line-side at AWG cables single or mult-stranded     Box lug       type of connectable conductor for supply maximum permissible     75 °C       material of the conductor for supply maximum permissible     AL or CU       type of connectable contor for load-side outgoing feeder     45 luf in       tightening torque [lbrin] for load-side outgoing feeder     45 luf in       type of connectable conductor rors-sections at AWG     1x (14 2 AWG)		
• with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       300 V         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       100 A         ype of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 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       1x (14 2 AWG)	according to UL	5A@600VAC (B600), 1A@250VDC (R300)
with multi-phase operation at AC rated value     300 V      Enclosure     degree of protection NEMA rating of the enclosure     design of the housing     dustproof, waterproof & resistant to corrosion      Circuit Breaker     type of the motor protection     Motor circuit protector (magnetic trip only)     operational current of motor circuit breaker rated value     100 A     adjustable current response value current of     instantaneous short-circuit trip unit      Mounting/wiring     mounting position     type of connectable conductor for supply voltage line-side     at AWG cables single or multi-stranded     temperature of the conductor for supply maximum     permissible     material of the conductor for supply     AL or CU     type of electrical connectable conductor cross-sections at AWG     type of connectable conductor cross-sections at AWG     type of connectable conductor cross-sections at AWG		
Enclosure         degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring		
degree of protection NEMA rating of the enclosure       NEMA 4x 304 stainless steel enclosure         design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply maximum permissible       Box lug         type of electrical connection for load-side outgoing feeder       45 45 lbf-in         tightening torque [lbf-in] for load-side outgoing feeder       45 42 WG)		300 V
design of the housing       dustproof, waterproof & resistant to corrosion         Circuit Breaker       type of the motor protection         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       mounting position         Mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       45 45 lbf·in         tightening torque [lbf·in] for load-side outgoing feeder       45 45 lbf·in		
Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       100 A         adjustable current response value current of instantaneous short-circuit trip unit       315 1000 A         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       Box lug         type of electrical connection for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor cross-sections at AWG       1x (14 2 AWG)		
type of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value100 Aadjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG1x (14 2 AWG)	<u> </u>	dustproof, waterproof & resistant to corrosion
operational current of motor circuit breaker rated value100 Aadjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiring315 1000 Amounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG1x (14 2 AWG)	Circuit Breaker	
adjustable current response value current of instantaneous short-circuit trip unit315 1000 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG1x (14 2 AWG)		
Instantaneous short-circuit trip unit         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 at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       45 45 lbf-in         type of connectable conductor cross-sections at AWG       1x (14 2 AWG)	•	
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG1x (14 2 AWG)	instantaneous short-circuit trip unit	315 1000 A
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feederBox lugtype of connectable conductor cross-sections at AWG1x (14 2 AWG)		
type of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 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 AWG1x (14 2 AWG)		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 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 AWG1x (14 2 AWG)		
at AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material 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 cross-sections at AWG         1x (14 2 AWG)		<b>.</b>
permissible     AL or CU       material of the conductor for supply     AL or CU       type of electrical connection for load-side outgoing feeder     Box lug       tightening torque [lbf·in] for load-side outgoing feeder     45 45 lbf·in       type of connectable conductor cross-sections at AWG     1x (14 2 AWG)		1x (10 AWG 1/0 AWG)
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 AWG1x (14 2 AWG)	1 11 2	75 °C
tightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections at AWG1x (14 2 AWG)	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections at AWG 1x (14 2 AWG)	type of electrical connection for load-side outgoing feeder	Box lug
stranded	cables for load-side outgoing feeder single or multi-	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder 75 °C	temperature of the conductor for load-side outgoing feeder	75 °C

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 coil at AWG cables single or multi-stranded	2x (16 12 AWG)	
temperature of the conductor at magnet coil maximum permissible	75 °C	
material of the conductor at magnet coil	CU	
type of electrical connection 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 at contactor at AWG cables for auxiliary contacts single or multi- stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C	
material of the conductor at contactor for auxiliary contacts	CU	
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals	
tightening torque [lbf-in] at overload relay for auxiliary contacts	7 10 lbf·in	
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (20 14 AWG)	
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C	
material of the conductor at overload relay for auxiliary contacts	CU	
Short-circuit current rating		
design of the short-circuit trip	Instantaneous trip circuit breaker	
breaking capacity maximum short-circuit current (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		
Industrial Controls - Product Overview (Catalogs, Brochu www.usa.siemens.com/iccatalog	ures,)	

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84GUG95WMF

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95WMF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84GUG95WMF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95WMF/certificate

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