SIEMENS

Data sheet US2:84GUG95WDJ



Duplex starter w/o alternator Size 2.5 Three phase full voltage Solid-state overload relay OLR amp range 25-100A 24VAC 50-60Hz Coil Combination type Two 100A disconnect switches Encl NEMA type 4X 304 S. Steel Water/dust tight non-corrosive

product brand name	Class 84
design of the product	Duplex controller with two non-fusible disconnect switches 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]	
 during storage 	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
at 200/208 V rated value	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 (operating cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	7
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
at DC rated value	0 0 V
• at AC at 50 Hz rated value	24 24 V
at AC at 60 Hz rated value	24 24 V
holding power at AC minimum	8.6 W

agaparent holding power of magnet coll at AC organitor garge factor control supply voltage rated value of organitor garge factor control supply voltage rated value of organitor garge factor control supply voltage rated value of organitor voltage of magnet coll related to the input voltage OFF-delay time O	apparent pick up power of magnet call at AO	240 \/A
operating range factor control supply voltage rated value of magnet coil related to the input voltage of magnet coil related to the coil voltage of the vo	apparent holding power of magnet coil at AC	218 VA
presental drop-out voltage of magnet coil related to the input voltage of protection of training of succiliary time. OFF-delay time OFF-delay time OFF-delay time OFF-delay time • overload protection • overload protection • overload protection • overload protection • oyarond fault detection • syarond fault detection • syarond fault detection • syarond fault detection • syarond fault detection • steat function • steat function • steat function • toternal reset • othernal reset • othernal reset • othernal reset • othernal reset • transport of the current of the current-dependent overload release • trip class • othernal reset • oth		
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product function • overload profection • phase failure detection • phase failure detection • pass failure detection • symmetry detection • cycand failure detection • cycand failure detection • cycand failure detection • cycand reset • cycand re	OFF-delay time	10 24 ms
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asymmetry detection ground fault detection yes letet function ves vexternal reset yes reset Anotion product function waternal reset yes reset function manual, automatic and remote trip class	 overload protection 	Yes
eground fault detection external reset	 phase failure detection 	Yes
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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 tripping time at phase-loss maximum 3 s relative repeat accuracy 15 mumber of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 2 1 operational current of auxiliary contacts of overload relay 3 1 operational current of auxiliary contacts of overload relay 4 1 operational current of auxiliary contacts of overload relay 4 1 operational current of auxiliary contacts of overload relay 4 1 operational current of auxiliary contacts of overload relay 4 1 0 operational current of auxiliary contacts of overload relay 4 1 0 operational current of auxiliary contacts of overload relay according to 1 1 0 operational current of auxiliary contacts of overload relay according to 1 0 operational current of auxiliary contacts of overload relay according to 1 0 operation of auxiliary contacts of overload relay according to 1 0 operation of auxiliary contacts of overload relay according to 1 0 operation of auxiliary contacts of overload relay according to 1 0 operation of auxiliary contacts of overload relay according to 1 0 operation of auxiliary contacts of overload relay according to 1 0 operation of auxiliary contacts of overload relay according to 1 0 operating class of the fuse link	 ground fault detection 	Yes
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number of NO contacts 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 multi-phase operation at AC rated value with multi-phase operation at AC rated value operating class of the fuse link non-fusible response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible ### Accord of the fuse link ### Accord of the enclosure ### Accord of the enclos	relative repeat accuracy	1 %
e at AC at 600 V e at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) e with single-phase operation at AC rated value e with multi-phase operation at AC rated value 300 V Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible portating lass of the fuse link endough of the housing design of the housing mounting position fastening method statening method type of electrical connection for supply voltage line-side temperature of the conductor for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible read of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder designing profit of the conductor for load-side outgoing feeder design of load-side outgoing	number of NC contacts of auxiliary contacts of overload relay	1
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response value of switch disconnector design of fuse holder operating class of the fuse link non-fusible reclosure degree of protection NEMA rating of the enclosure design of the housing dustproof, waterproof & resistant to corrosion Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply temperature of the conductor for supply temperature of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for supply AL or CU type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil Screw-type terminals	 with multi-phase operation at AC rated value 	300 V
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degree of protection NEMA rating of the enclosure design of the housing mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply type of connectable conductor for supply maximum permissible material of the conductor cross-sections for AWG cables for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible MEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Wertical Surface mounting and installation 120 120 lbf·in 120 120 lbf·in 1x (14 1/0 AWG) 1x (14	design of fuse holder	non-fusible
degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder material of the conductor for supply type of connectable conductor for supply AL or CU type of connectable conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion Vertical Surface mounting and installation Box lug 1x (14 1/0 AWG) 1x (14 1/0 AWG) 1x (14 1/0 AWG) 1x (14 1/0 AWG) 1x (14 2 AWG)	operating class of the fuse link	non-fusible
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mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder aximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil Vertical Surface mounting and installation Box lug 1x (14 1/0 AWG) AL or CU Type of electrical connection for supply voltage line-side Tx (14 2 AWG)	design of the housing	dustproof, waterproof & resistant to corrosion
fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible type of electrical connection for load-side outgoing feeder type of electrical connectable conductor for supply AL or CU type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or CU type of electrical connection for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil Screw-type terminals	Mounting/wiring	
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AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil Screw-type terminals	tightening torque [lbf-in] for supply	120 120 lbf-in
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil AL or CU Screw-type terminals	7.	1x (14 1/0 AWG)
type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder 45 45 lbf·in type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil Box lug 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals	temperature of the conductor for supply maximum permissible	75 °C
tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals	type of electrical connection for load-side outgoing feeder	Box lug
for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil AL or CU Screw-type terminals	tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf-in
maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil Screw-type terminals	7.	1x (14 2 AWG)
type of electrical connection of magnet coil Screw-type terminals		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	tightening torque [lbf-in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded		2x (16 12 AWG)
temperature of the conductor at magnet coil maximum 75 °C permissible	temperature of the conductor at magnet coil maximum	75 °C
material of the conductor at magnet coil CU	material of the conductor at magnet coil	CU
type of electrical connection at contactor for auxiliary contacts Screw-type terminals		Operator to the state of the st

tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	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 for 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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

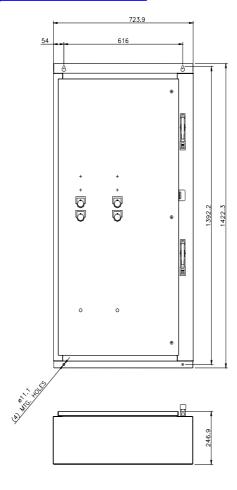
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84GUG95WDJ

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

https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95WDJ

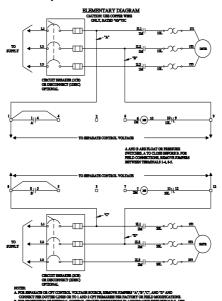
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84GUG95WDJ&lang=en

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SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Manual Alternation Size 0-4



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last modified: 1/25/2022 🖸