## SIEMENS

## Data sheet

## US2:84GUG95EDJ



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 4 painted steel Water/dust tight weather proof

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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]			
<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		
<ul> <li>at 220/230 V rated value</li> </ul>	20 hp		
<ul> <li>at 460/480 V rated value</li> </ul>	30 hp		
<ul> <li>at 575/600 V rated value</li> </ul>	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		
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	
apparent pick-up power of magnet coil at AC	218 VA	
apparent holding power of magnet coil at AC	25 VA	
operating range factor control supply voltage rated value of magnet coil	0.85 1.1	
percental drop-out voltage of magnet coil related to the input voltage	50 %	
ON-delay time	19 29 ms	
OFF-delay time	10 24 ms	
Overload relay		
product function		
<ul> <li>overload protection</li> </ul>	Yes	
<ul> <li>phase failure detection</li> </ul>	Yes	
asymmetry detection	Yes	
ground fault detection	Yes	
test function	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 %	
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		
• 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)		
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V	
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V	
Disconnect Switch		
response value of switch disconnector	100A / 600V	
design of fuse holder	non-fusible	
operating class of the fuse link	non-fusible	
Enclosure		
degree of protection NEMA rating of the enclosure	NEMA Type 4	
design of the housing	dustproof, waterproof & weatherproof	
5 5		
Mounting/wiring	Medical	
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	120 120 lbf·in	
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 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 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	

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 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=US2:84GUG95EDJ				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95EDJ				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)				
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84GUG95EDJ⟨=en				

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:84GUG95EDJ/certificate

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