SIEMENS

Data sheet

US2:83GUG95EJ



Duplex starter w/o alternator, Size 2 1/2, Three phase full voltage, Solidstate overload relay, OLR amp range 25-100A, 24VAC 50-60Hz coil, Noncombination type, Enc NEMA type 4 painted steel, Water/dust tight for outdoors

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product brand name	Class 83			
design of the product	Duplex controller without alternator			
special product feature	Half-size controller; ESP200 overload relay			
General technical data				
weight [lb]	57 lb			
Height x Width x Depth [in]	25 × 17 × 7 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 (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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at DC rated value	00V
at AC at 50 Hz rated value	24 24 V
at AC at 60 Hz rated value	24 24 V 8.6 W
holding power at AC minimum apparent pick-up power of magnet coil at AC	218 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 coil	0.00 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	
 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	Yes
 ground fault detection 	Yes
 test function 	Yes
external reset	Yes
reset function	Manual, automatic and remote
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 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)	
 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 4 enclosure
design of the housing	dustproof, waterproof & weatherproof
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 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 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 coil at AWG cables single or multi-stranded	2x (16 12 AWG)

75 °C				
CU				
Screw-type terminals				
10 15 lbf·in				
1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)				
75 °C				
CU				
Screw-type terminals				
7 10 lbf·in				
2x (20 14 AWG)				
75 °C				
CU				
10kA@600V (Class H or K); 100kA@600V (Class R or J)				
Thermal magnetic circuit breaker				
14 kA				
10 kA				
10 kA				
NEMA ICS 2; UL 508; CSA 22.2, No.14				
Further information				
ıres,)				
www.usa.siemens.com/iccatalog				
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:83GUG95EJ				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:83GUG95EJ				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83GUG95EJ⟨=en				
Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:83GUG95EJ/certificate				

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