SIEMENS

Data sheet

US2:84HUG95EDF



Duplex starter w/o alternator Size 3 Three phase full voltage Solid-state overload relay OLR amp range 25-100A 110VAC 50Hz / 120VAC 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
General technical data	
weight [lb]	106 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	20 hp
• at 220/230 V rated value	25 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (switching cycles) of the main contacts typical	500000
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	0.01/
at DC rated value	00V
at AC at 50 Hz rated value	110 110 V
at AC at 60 Hz rated value	120 120 V
holding power at AC minimum	14 W
apparent pick-up power of magnet coil at AC	310 VA
apparent holding power of magnet coil at AC	26 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	26 41 ms
OFF-delay time	14 19 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
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current-	25 100 A
dependent overload release	20 100 M
tripping time at phase-loss maximum	3 s
relative repeat accuracy	1 %
number of NC contacts of auxiliary contacts of overload	1
relay	
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
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
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	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	120 120 lbf in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	1x (14 2/0 AWG)
to report up of the conductor for load side outgoing fooder	75 °C
temperature of the conductor for load-side outgoing feeder	10 0

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					
Service&Support (Manuals, Certificates, Characteristics,					
https://support.industry.siemens.com/cs/US/en/ps/US2:84HL					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84HUG95EDF⟨=en					
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Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:84HUG95EDF/certificate

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