SIEMENS

Data sheet

US2:84DUC95EDH

Duplex starter W/O alternator Size 1 Three phase full voltage Solidstate overload relay OLRelay amp range 3-12A Combination type Two 30A disconnect switches Encl NEMA type 4 painted steel Water/dust tight weather proof



Figure similar

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]	70 lb
Height x Width x Depth [in]	34 × 25 × 8 in
Protection against electrical shock	NA for enclosed products
Installation altitude [ft] at height above sea level	6560 ft
maximum	
Ambient temperature [°F]	
 during storage maximum 	149 °F
 during operation maximum 	104 °F

Ambient temperature	
 during storage maximum 	65 °C
 during operation maximum 	40 °C
Country of origin	USA

Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
• at 200/208 V rated value	2 hp
• at 220/230 V rated value	2 hp
• at 460/480 V rated value	5 hp
• at 575/600 V rated value	5 hp

Contactor	
Size of contactor	NEMA controller size 1
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60	600 V
Hz maximum	
Operating current at AC at 600 V rated value	27 A
Mechanical service life (switching cycles) of the main	1000000
contacts typical	
Auxiliary contact	
Number of NC contacts at contactor for auxiliary	0
contacts	
Number of NO contacts at contactor for auxiliary	1
contacts	
Number of total auxiliary contacts maximum	8
Contact rating of auxiliary contacts of contactor	10A@600VAC (A600), 5A@600VDC (P600)
according to UL	
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	380 440 V
• at AC at 60 Hz rated value	440 480 V
Holding power at AC minimum	8.6 W
Apparent pick-up power of magnet coil at AC	218 V·A
Apparent holding power of magnet coil at AC	25 V·A
Operating range factor control supply voltage rated	0.85 1.1
value of magnet coil	
Percental drop-out voltage of magnet coil related to	50 %

the input voltage	
Switch-on delay time	19 29 ms
Off-delay time	10 24 ms
Overload relay	

ovenoad relay		
Product function		
 Overload protection 	Yes	
 Phase failure detection 	Yes	

• Dhase unbelance	Yes
Phase unbalance	
 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 pick-up value current of the current- dependent overload release	3 12 A
Trip 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
Operating 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	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Disconnect Switch	
Rated response values of switch disconnector	30A / 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	Dust-tight, watertight & weather proof
Mounting/wiring	
Mounting position	Vertical
Mounting type	Surface mounting and installation
Type of electrical connection for supply voltage line- side	Box lug
Tightening torque [lbf-in] for supply	35 35 lbf·in
Type of connectable conductor cross-sections at line- side at AWG conductors 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	Screw-type terminals

Tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf·in
Type of connectable conductor cross-sections at AWG conductors 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 conductors 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 conductors 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 conductors 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	CU
auxiliary contacts	
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	

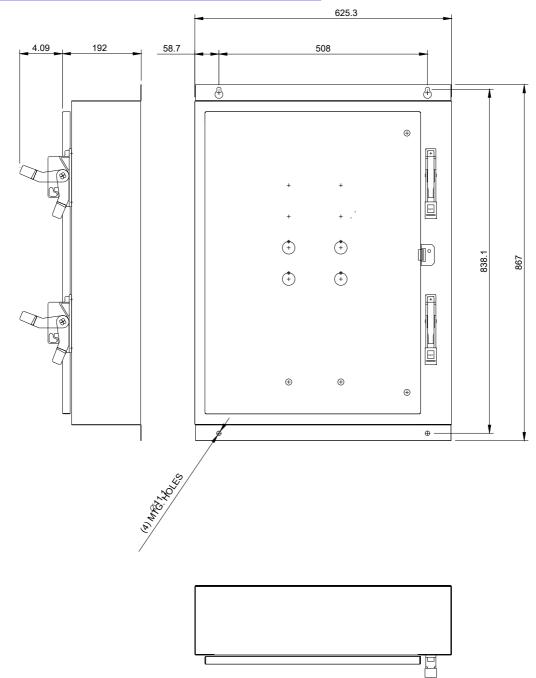
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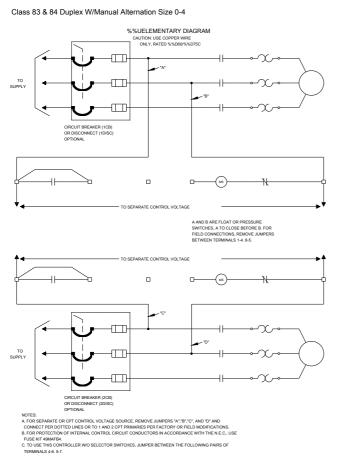
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Certificates/approvals

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