SIEMENS

Data sheet

US2:84DUB95EMJ



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 24VAC 50-60Hz coil, Combination type, Two 3A circuit breakers, Enc NEMA type 4 painted steel, Water/dust tight for outdoors

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product brand name	Class 84		
design of the product	Duplex controller with two MCPs 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		
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	0.5 hp		
 at 220/230 V rated value 	0.75 hp		
• at 460/480 V rated value	1.5 hp		
• at 575/600 V rated value	2 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 Hz maximum	600 V		
operational current at AC at 600 V rated value	27 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	8		
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			

a at DC rated value	0 0)/		
at DC rated value	0 0 V 24 24 V		
 at AC at 50 Hz rated value at AC at 60 Hz rated value 	24 24 V 24 24 V		
holding power at AC minimum	24 24 V 8.6 W		
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		
trip class	CLASS 5 / 10 / 20 (factory set) / 30		
adjustable current response value current of the current- dependent overload release	0.75 3.4 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 Type 4		
design of the housing	dustproof, waterproof & weatherproof		
Circuit Breaker			
type of the motor protection	Motor circuit protector (magnetic trip only)		
operational current of motor circuit breaker rated value	3 A		
adjustable current response value current of instantaneous short-circuit trip unit	10 35 A		
Mounting/wiring			
mounting position	Vertical		
fastening method	Surface mounting and installation		
type of electrical connection for supply voltage line-side	Box lug		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 AWG 10 AWG) or 1x (12 AWG 10 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	20 24 lbf·in		
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	2x (14 10 AWG)		
temperature of the conductor for load-side outgoing feeder	75 °C		

maximum permissible	
material of the conductor for load-side outgoing feeder	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 ℃
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 short-circuit trip	Instantaneous trip circuit breaker
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	100 kA
• at 480 V	100 kA
• at 600 V	25 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	
Industrial Controls - Product Overview (Catalogs, Broch www.usa.siemens.com/iccatalog	ures,)
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/produc	t?mlfb=US2:84DUB95EMJ
Service & Support (Manuala, Cartificator, Characteristics	

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:84DUB95EMJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84DUB95EMJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUB95EMJ/certificate

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