SIEMENS

Data sheet

US2:83DUE95BD



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 208VAC 60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

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product brand name	Class 83	
design of the product	Duplex controller without alternator	
special product feature	ESP200 overload relay	
General technical data		
weight [lb]	40 lb	
Height x Width x Depth [in]	20 × 16 × 6 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	7.5 hp	
• at 220/230 V rated value	7.5 hp	
 at 460/480 V rated value 	0 hp	
• at 575/600 V rated value	0 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		

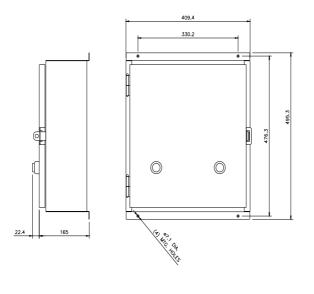
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at DC rated value	00V	
at AC at 50 Hz rated value	0 0 V 208 208 V	
at AC at 60 Hz rated value	206 206 V 8.6 W	
holding power at AC minimum apparent pick-up power of magnet coil at AC	218 VA	
apparent holding power of magnet coil at AC	25 VA	
operating range factor control supply voltage rated value	0.85 1.1	
of magnet coil	0.03 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-	10 40 A	
dependent overload release		
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 1 enclosure	
design of the housing	indoors, usable on a general basis	
Mounting/wiring		
	Vertical	
mounting position	Vertical	
fastening method	Surface mounting and installation	
type of electrical connection for supply voltage line-side	Screw-type terminals	
tightening torque [lbf·in] for supply	35 35 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	Screw-type terminals	
tightening torque [lbf·in] for load-side outgoing feeder	35 35 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	2x (16 12 AWG)	
coil at AWG cables single or multi-stranded		

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)		
design of the short-circuit trip	Thermal magnetic circuit breaker		
breaking capacity maximum short-circuit current (Icu)			
• at 240 V	14 kA		
• at 480 V	10 kA		
• at 600 V	10 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	Jres,)		
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/produc			
Service&Support (Manuals, Certificates, Characteristics,			
https://support.industry.siemens.com/cs/US/en/ps/US2:83DL	<u>JE95BD</u> a. 2D modela, davies circuit diagrama, EBI AN maaroo,		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83DUE95BD&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83DUE95BD/certificate



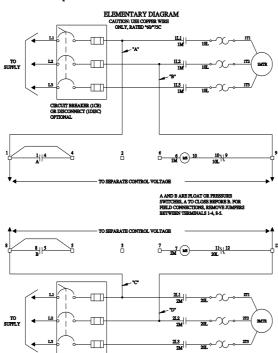
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CONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
A	ø12.7 DIA. CONDUIT
В	ø12.7 & ø19 DIA. CONDUIT
С	ø31.8 & ø38.1 DIA. CONDUIT

SCHEMATIC DIAGRAM

Class 83 & 84 Duplex W/Manual Alternation Size 0-4



CIRCUIT I OR DISCO OPTIONAL E OR CPT CO Y OR FIELD MODIF

REAKER (2CB)

last modified:

1/25/2022 🖸

7/6/2022