SIEMENS

Data sheet

US2:84DPE920MF81



Duplex starter w/ alternator, Size 1, Three phase full voltage, Amb. compensate bimetal OLR, contactor A rating 27A, 110V 50Hz / 120V 60Hz coil, Combination type, Two 25A circuit breakers, Enclosure NEMA type 12, Dust/drip proof for indoors

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product brand name	Class 84			
design of the product	Duplex controller with two MCPs with alternator			
special product feature	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising pressure type control terminals; Encapsulated coil			
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 	3 hp			
 at 220/230 V rated value 	3 hp			
 at 460/480 V rated value 	10 hp			
 at 575/600 V rated value 	10 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				
 at DC rated value 	0 0 V			
 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	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 value of magnet coil	0.85 1.1			
percental drop-out voltage of magnet coil related to the input voltage	50 %			
switch ON delay time	19 29 ms			
OFF delay time	10 24 ms			
Overload relay				
product function				
overload protection	Yes			
test function	Yes			
 external reset 	Yes			
reset function	Manual and automatic			
adjustment range of thermal overload trip unit	0.85 1.15			
number of NC contacts of auxiliary contacts of overload relay	1			
number of NO contacts of auxiliary contacts of overload relay	0			
operational current of auxiliary contacts of overload relay				
• at AC at 600 V	10 A			
● at DC at 250 V	5 A			
contact rating of auxiliary contacts of overload relay according to UL	10A@600VAC (A600), 5A@250VDC (P300)			
Enclosure				
degree of protection NEMA rating of the enclosure	NEMA Type 12			
design of the housing	Dust tight and drip proof for indoors			
Circuit Breaker				
type of the motor protection	Motor circuit protector (magnetic trip only)			
operational current of motor circuit breaker rated value	25 A			
adjustable current response value current of instantaneous short-circuit trip unit	55 180 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	35 50 lbf·in			
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	5 12 lbf·in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (16 12 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	

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?mlfb=US2:84DPE920MF81

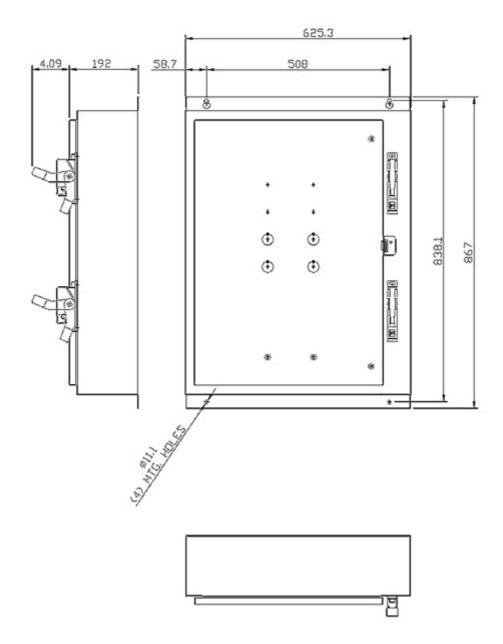
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

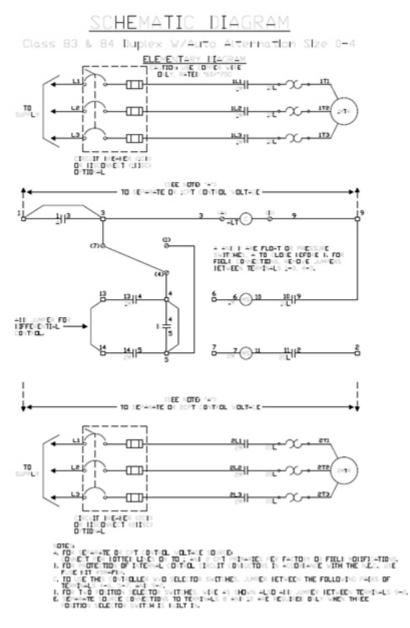
https://support.industry.siemens.com/cs/US/en/ps/US2:84DPE920MF81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:84DPE920MF81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DPE920MF81/certificate





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