SIEMENS

Data sheet US2:87DUB6MJ



Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 0.75-3.4A, 24VAC 50-60Hz coil, Standard type contactor, 3A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

product brand name	Class 87		
design of the product	Pump control panel with MCP		
special product feature	ESP200 overload relay		
General technical data			
weight [lb]	47 lb		
Height x Width x Depth [in]	29 × 20 × 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	0.5 hp		
• at 460/480 V rated value	1 hp		
• at 575/600 V rated value	1 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 (operating cycles) of the main contacts typical	10000000		
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 	24 24 V		
at AC at 60 Hz rated value	24 24 V		
holding power at AC minimum	8.6 W		

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 of magnet coil	0.85 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 (factory set) / 20 / 30			
adjustable current response value current of the current-	0.75 3.4 A			
dependent overload release tripping time at phase-loss maximum	3 s			
	1%			
relative repeat accuracy	Yes			
product feature protective coating on printed-circuit board	Yes 1			
number of NC contacts of auxiliary contacts of overload relay	1			
number of NO contacts of auxiliary contacts of overload relay	'			
operational current of auxiliary contacts of overload relay	F.A.			
• 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 3R			
design of the housing	Weather proof for outdoor use			
Standard Control Devices				
product component Hand-Off-Auto selector switch	Yes			
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish			
product component start push button	Yes			
type of start push button	30mm metal housing with matte finish			
Circuit Breaker				
type of the motor protection	Motor circuit protector (magnetic trip only)			
type of the motor protection operational current of motor circuit breaker rated value	Motor circuit protector (magnetic trip only) 3 A			
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operational current of motor circuit breaker rated value adjustable current response value current of instantaneous	3 A			
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring	3 A 10 35 A			
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position	3 A 10 35 A Vertical			
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method	3 A 10 35 A Vertical Surface mounting and installation			
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for	3 A 10 35 A Vertical			
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	3 A 10 35 A Vertical Surface mounting and installation Box lug			
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	3 A 10 35 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)			
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type of connectable conductor cross-sections of magnet coil for 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 for 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 for 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		
maximum short-circuit current breaking capacity (Icu)			
• at 240 V	100 kA		
• at 480 V	100 kA		
● at 600 V	25 kA		
certificate of suitability	NEMA ICS 2; UL 508		
Further information			

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87DUB6MJatalog/produ$

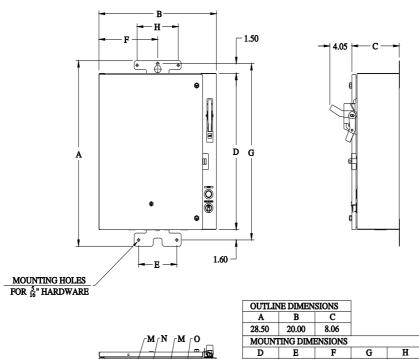
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:87DUB6MJ

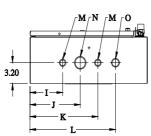
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87DUB6MJ&lang=en

Certificates/approvals

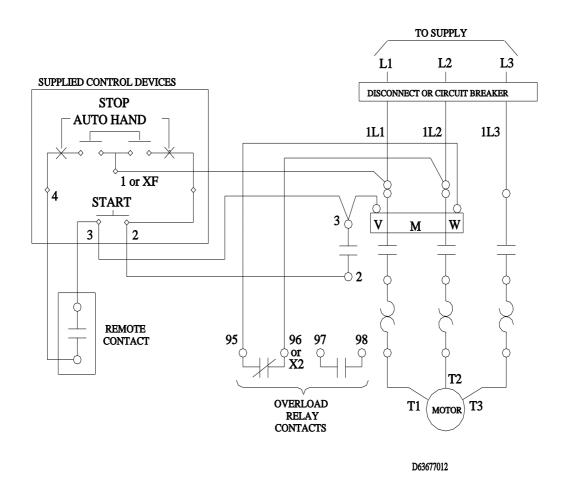
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUB6MJ/certificate





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Α	В	С						
28.50	20.00	8.06						
MOUN	TING DIM	ENSIONS						
D	Е	F	G	H				
24.00	6.50	10.00	27.10	7.00				
CONDUIT KNOCKOUTS								
I	J	K	L	M	N	0		
5.50	8.50	11.50	14.50	1.12875	1.96-1.71	1.35-1.12		

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