SIEMENS

Data sheet

US2:87DUD6MC



Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 220-240/440-480VAC 60Hz coil, Standard type contactor, 25A 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; Dual voltage coil			
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	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 (operating 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	0 0 V			
• at AC at 60 Hz rated value	220 480 V			
holding power at AC minimum	8.6 W			

	240.1/4			
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	50 %			
voltage				
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- dependent overload release	5.5 22 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 sulfi-phase operation at AC rated value Enclosure	300 V			
with multi-phase operation at AC rated value Enclosure	300 V			
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure	300 V NEMA Type 3R			
with multi-phase operation at AC rated value Enclosure	300 V			
with multi-phase operation at AC rated value Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices	300 V NEMA Type 3R Weather proof for outdoor use			
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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)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87DUD6MC

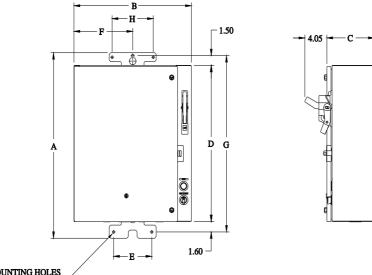
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:87DUD6MC

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

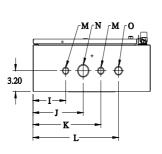
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87DUD6MC&lang=en

Certificates/approvals

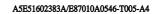
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUD6MC/certificate

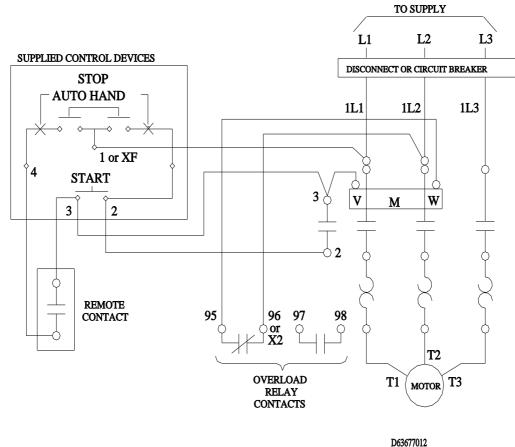






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В	С				
20.00	8.06				
ING DIMI	ENSIONS				
E	F	G	H		
6.50	10.00	27.10	7.00		
T KNOCH	COUTS				
J	K	L	М	N	0
8.50	11.50	14.50	1.12875	1.96-1.71	1.35-1.12
	20.00 ING DIMI E 6.50 T KNOCH J	20.00 8.06 ING DIMENSIONS E F 6.50 10.00 T KNOCKOUTS J K	20.00 8.06 ING DIMENSIONS E E F G 6.50 10.00 27.10 T KNOCKOUTS J K	20.00 8.06 ING DIMENSIONS	20.00 8.06 ING DIMENSIONS





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