## **SIEMENS**

Data sheet US2:87DUE6MD



Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 208VAC 60Hz coil, Standard type contactor, 30A 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]				
<ul> <li>during storage</li> </ul>	-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				
<ul><li>at 200/208 V rated value</li></ul>	7.5 hp			
• at 220/230 V rated value	7.5 hp			
• at 460/480 V rated value	10 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 (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			
<ul> <li>at AC at 50 Hz rated value</li> </ul>	0 0 V			
at AC at 60 Hz rated value	208 208 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			
<ul> <li>overload protection</li> </ul>	Yes		
phase failure detection	Yes		
<ul> <li>asymmetry detection</li> </ul>	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	10 40 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)			
<ul> <li>with single-phase operation at AC rated value</li> </ul>	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)		
operational current of motor circuit breaker rated value	30 A		
adjustable current response value current of instantaneous short-circuit trip unit	80 270 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 for AWG cables single or multi-stranded	1x (10 AWG 1/0 AWG)		
, to outlies single of multi-stranged			
temperature of the conductor for supply maximum permissible	75 °C		
temperature of the conductor for supply maximum permissible	75 °C		
material of the conductor for supply	AL or CU		
material of the conductor for supply type of electrical connection for load-side outgoing feeder	AL or CU Screw-type terminals		
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	AL or CU		
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	AL or CU Screw-type terminals 35 35 lbf·in		
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	AL or CU Screw-type terminals 35 35 lbf·in 1x (14 2 AWG) 75 °C		
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder	AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU		
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	AL or CU Screw-type terminals 35 35 lbf·in 1x (14 2 AWG) 75 °C		

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 (lcu)			
● 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)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87DUE6MD}$ 

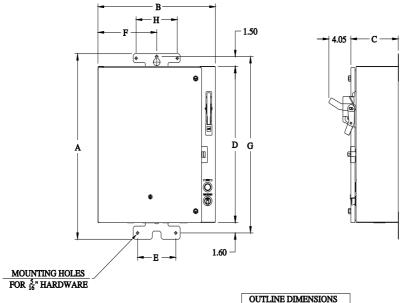
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:87DUE6MD

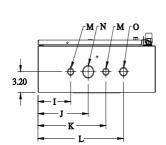
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUE6MD&lang=en

Certificates/approvals

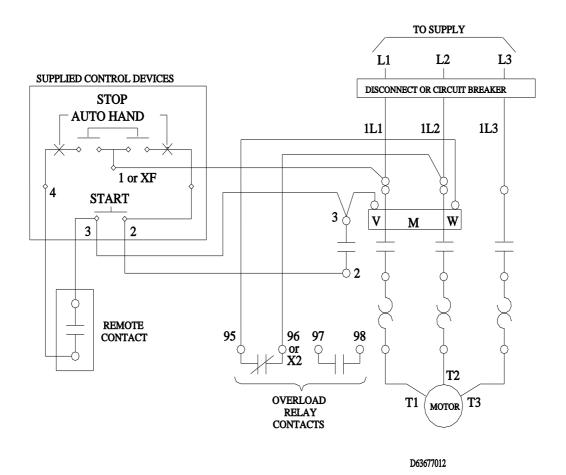
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUE6MD/certificate





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Α	В	С						
28.50	20.00	8.06						
MOUNT	ING 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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