## **SIEMENS**

Data sheet US2:87DUD6FD



Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 208VAC 60Hz coil, Standard type contactor, 30A fusible disconnect, 30A/600V fuse clip, 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 fused disconnect switch		
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 hp		
• at 220/230 V rated value	0 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	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		

annarent nick-un nower of magnet coil at AC	218 VA		
apparent pick-up power of magnet coil at AC	0.85 1.1		
operating range factor control supply voltage rated value of magnet coil	0.00 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	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)			
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V		
with multi-phase operation at AC rated value	300 V		
Disconnect Switch			
response value of switch disconnector	30A / 600V		
design of fuse holder	Class H fuse clips		
operating class of the fuse link	Class H, J (retrofittable), K and R		
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		
product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch	30mm metal housing with matte finish		
product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button	30mm metal housing with matte finish Yes		
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product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button  Mounting/wiring mounting position	30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical		
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product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for	30mm metal housing with matte finish Yes 30mm metal housing with matte finish  Vertical Surface mounting and installation		
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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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)		
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=US2:87DUD6FD

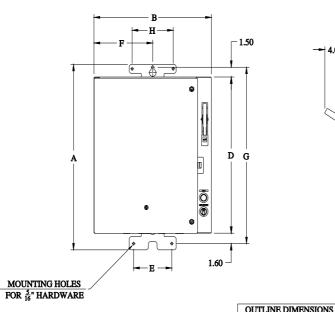
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

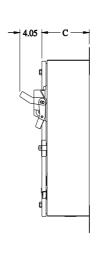
https://support.industry.siemens.com/cs/US/en/ps/US2:87DUD6FD

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUD6FD&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87DUD6FD&lang=en</a>

Certificates/approvals

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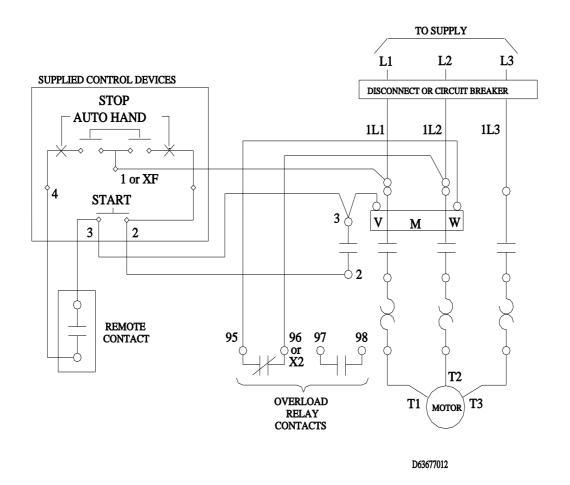




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