SIEMENS

Data sheet

US2:87DUD6LG

Pump control panel, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 190-220/220-240V 50/60Hz coil, Standard type contactor, 30A fusible disconnect, 30A/250V 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 special product feature ESP200 overload relay General technical data ESP200 overload relay weight [b] 47 lb Height x Widh x Depth [n] 29 × 20 × 8 in touch protection against electrical shock NA for enclosed products installation altitude [t] at height above sea level maximum 6860 ft ambient temperature [TF] - • during storage -22 +149 "F • during storage -30 +65 "C • during storage -30 +65 "C • during operation - • at 220/230 V rated value 3 hp • at 220/230 V rated value 3 hp • at 480/480 V rated value 0 hp • during values at contactor NEMA controller size 1 number of NO contacts at contactor for awaice outside 3 operating values at contactor for awailer outside 27 A mechanical aerron at AC at 600 V rated value 27 A mechanical aerron at AC at 600 V rated value 27 A mechanical aerron at AC at 600 V rated value 1 operating values or fine	product brand name	Class 97
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Coil type of voltage of the control supply voltage AC control supply voltage 0 0 V	number of total auxiliary contacts maximum	8
type of voltage of the control supply voltage AC control supply voltage 0 0 V	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage • at DC rated value 0 0 V	Coil	
• at DC rated value 0 0 V	type of voltage of the control supply voltage	AC
	control supply voltage	
• at AC at 50 Hz rated value 190 220 V	• at DC rated value	0 0 V
	• at AC at 50 Hz rated value	190 220 V
• at AC at 60 Hz rated value 220 240 V	• at AC at 60 Hz rated value	220 240 V
holding power at AC minimum 8.6 W	holding power at AC minimum	8.6 W

apparent pick-up power of magnet coil at AC	218 VA
operating range factor control supply voltage rated value of	0.85 1.1
magnet coil	
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- 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)	
e with single phase exerction at AC reted value	600 V
 with single-phase operation at AC rated value 	000 V
with multi-phase operation at AC rated value	300 V
with multi-phase operation at AC rated value	
with multi-phase operation at AC rated value Disconnect Switch	300 V
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link	300 V 30A / 250V
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder	300 V 30A / 250V Class H fuse clips
with multi-phase operation at AC rated value Disconnect Switch response value of switch disconnector design of fuse holder operating class of the fuse link Enclosure degree of protection NEMA rating of the enclosure	300 V 30A / 250V Class H fuse clips Class H, K and R NEMA Type 3R
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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=US2:87DUD6LG

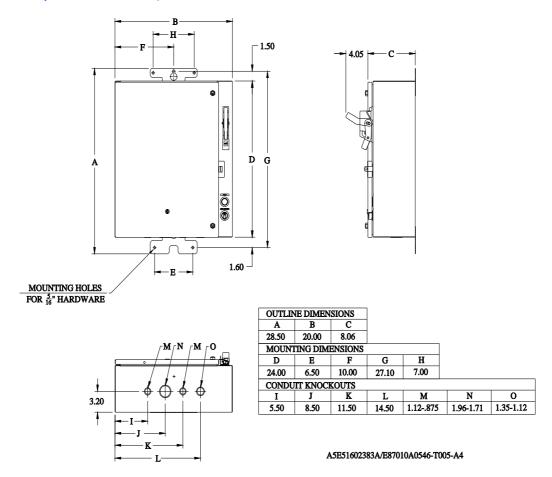
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:87DUD6LG

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87DUD6LG&lang=en

Certificates/approvals

https://support.industry.s iemens.com/cs/US/en/ps/US2:87DUD6LG/certificate



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