SIEMENS

Data sheet

US2:88LPUP4FH

	Reduced voltage pump panel, Two step part winding, Size 5, 460V 3-phase motor voltage, Solid-state overload relay, OLR amp range 55-250A, 440-480V 50-60Hz/DC coil, 600A fusible disconnect, 600A/600V fuse clip, HOA Sel Sw. <(>&<)>Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use
product brand name	Class 88
design of the product	Reduced voltage pump panel with fusible disconnect - Two step part winding
special product feature	Latest technology in arc quenching to extend contactor life; Same coil voltage is AC or DC
General technical data	
weight [lb]	410 lb
Height x Width x Depth [in]	90 × 30 × 20 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	350 hp
• at 575/600 V rated value	0 hp
Contactor	
size of contactor	NEMA controller size 5
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	460 V
operational current at AC at 600 V rated value	270 A
mechanical service life (operating cycles) of the main contacts typical	1000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	2
number of NO contacts at contactor for auxiliary contacts	2
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@240VAC (A300), 2.5A@250VDC (Q300)
Coil	
type of voltage of the control supply voltage	AC/DC
control supply voltage	
at DC rated value	440 480 V
at AC at 50 Hz rated value	440 480 V
at AC at 60 Hz rated value	440 480 V
holding power at AC minimum	7.4 W
apparent pick-up power of magnet coil at AC	590 VA
apparent holding power of magnet coil at AC	6.7 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	60 %
ON-delay time	30 95 ms
OFF-delay time	40 80 ms
Overload relay	

 product function overload protection 	Yes
phase failure detection	Yes
	Yes
 asymmetry detection ground fault detection 	No
test function	Yes
external reset	Yes
reset function	Manual and automatic
trip class	CLASS 10
adjustable current response value current of the current-	55 250 A
dependent overload release	
product feature protective coating on printed-circuit board	No
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 multi-phase operation at AC rated value	300 V
Disconnect Switch	
response value of switch disconnector	600A / 600V
design of fuse holder	Class R fuse clips
operating class of the fuse link	Class R
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 3/3R
design of the housing	Weather proof for outdoor use
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug $2x/(2/2) = 500 x_{222} ^2 + (4/2) = 500 x_{222} ^2$
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	AL or CU
type of electrical connection for load-side outgoing feeder	Box lug
type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder	180 195 lbf·in
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contacts maximum permissible		
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=US2:88LPUP4FH Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:88LPUP4FH Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:88LPUP4FH⟨=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:88LPUP4FH/certificate		

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