SIEMENS

Data sheet US2:88MSXT4MF

	Reduced voltage pump panel, Auto transformer, Size 6, 460V 3-phase motor voltage, Solid-state overload relay, OLR amp range 160-630A, 110-127V 50-
	60Hz/DC coil, 600A circuit breaker, 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 MCP - Auto transformer
special product feature	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising
<u> </u>	pressure type control terminals; Encapsulated coil
General technical data	
weight [lb]	762 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	400 hp
at 575/600 V rated value	0 hp
Contactor	O TIP
size of contactor	NEMA controller size 6
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	540 A
mechanical service life (operating cycles) of the main contacts typical	10000000
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	110 127 V
at AC at 50 Hz rated value	110 127 V
at AC at 60 Hz rated value at AC at 60 Hz rated value	110 127 V
holding power at AC minimum	10 W
apparent pick-up power of magnet coil at AC	830 VA
apparent holding power of magnet coil at AC	9.2 VA
operating range factor control supply voltage rated value of	9.2 VA 0.85 1.1
magnet coil percental drop-out voltage of magnet coil related to the input	60 %
voltage	
ON-delay time	45 100 ms
OFF-delay time	60 100 ms
Overload relay	

product function	V.
overload protection	Yes
phase failure detection	Yes
asymmetry detection	No
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- dependent overload release	160 630 A
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
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 3/3R
design of the housing	Weather proof for outdoor use
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value	600 A
adjustable current response value current of instantaneous short-circuit trip unit	3000 6000 A
Mounting/wiring	
Mounting/wiring mounting position	Vertical
	Vertical Surface mounting and installation
mounting position	
mounting position fastening method	Surface mounting and installation
mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	Surface mounting and installation Box lug
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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=US2:88MSXT4MF

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:88MSXT4MF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:88MSXT4MF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:88MSXT4MF/certificate

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