SIEMENS

Data sheet

US2:87MSX6MH



Pump control panel, Size 6, Three phase full voltage, Solid-state overload relay, OLR amp range 160-630A, 440-480V 50-60Hz/DC coil, Standard type contactor, 600A 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	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising pressure type control terminals; Encapsulated coil
General technical data	
weight [lb]	240 lb
Height x Width x Depth [in]	79 × 22 × 13 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	150 hp
• at 220/230 V rated value	200 hp
• at 460/480 V rated value	400 hp
• at 575/600 V rated value	400 hp
Contactor	
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	600 V
operational current at AC at 600 V rated value	540 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 nower at AC minimum	10 W
holding power at AC minimum	830 VA
apparent pick-up power of magnet coil at AC	9.2 VA
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil	9.2 VA 0.85 1.1
percental drop-out voltage of magnet coil related to the input voltage	60 %
ON-delay time	45 100 ms
OFF-delay time	60 100 ms
Overload relay	
product function	
overload protection	Yes
phase failure detection	Yes
asymmetry detection	Yes
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
with multi-phase operation at AC rated value Enclosure	300 V
Enclosure degree of protection NEMA rating of the enclosure	NEMA Type 3R
Enclosure degree of protection NEMA rating of the enclosure design of the housing	
Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices	NEMA Type 3R Weather proof for outdoor use
Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch	NEMA Type 3R Weather proof for outdoor use Yes
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permissible material of the conductor at magnet coil 0 type of electrical connection at contactor for auxiliary contacts 5 tightening torque [lbf·in] at contactor for auxiliary contacts 7	75 °C CU Screw-type terminals 7 10 lbf·in
permissible material of the conductor at magnet coil 0 type of electrical connection at contactor for auxiliary contacts 5 tightening torque [lbf·in] at contactor for auxiliary contacts 7 type of connectable conductor cross-sections at contactor for 2	CU Screw-type terminals 7 10 lbf·in
type of electrical connection at contactor for auxiliary contactsStightening torque [lbf·in] at contactor for auxiliary contacts7type of connectable conductor cross-sections at contactor for2	Screw-type terminals 7 10 lbf·in
tightening torque [lbf·in] at contactor for auxiliary contacts 7 type of connectable conductor cross-sections at contactor for 2	7 10 lbf·in
type of connectable conductor cross-sections at contactor for	
	2x (20 16 AWG), 2x (18 14 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 (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	

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87MSX6MH

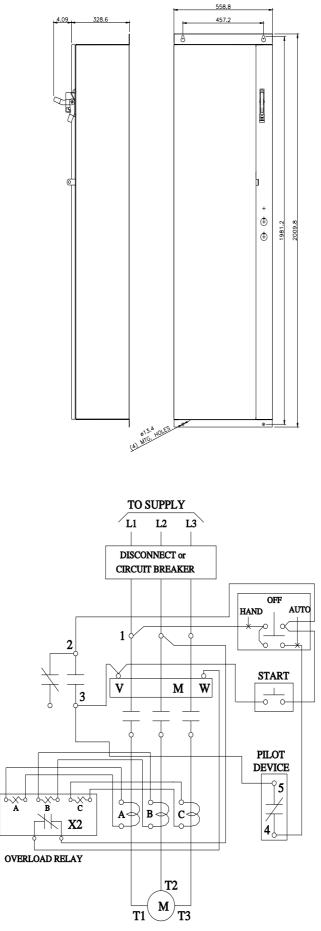
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:87MSX6MH

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87MSX6MH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:87MSX6MH/certificate



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