SIEMENS

Data sheet US2:87FUF6PA



Figure similar

Pump control panel, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 110-120/220-240VAC 60Hz coil, Standard type contactor, 100A fusible disconnect, 100A/250V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

design of the product special product feature ESP200 overload relay; Dual voltage coil Separat bechnical data weight [lb] 48 lb Height x Width x Depth [in] 29 × 20 × 8 in NA for enclosed products installation altitude [ft] at height above sea level maximum ambient temperature [*F] of uning storage - 22 +149 *F of uning storage - 30 +65 *C of uning operation - 20 +40 *C country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor of at 200/208 V rated value 15 hp of at 690/480 V rated value 0 hp of at 690/480 V rated value 0 hp contactor size of contactor No contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts	product brand name	Class 87
Weight [b] 48 lb Height x Width x Depth [in] 29 × 20 × 8 in touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature ["F] 6 during storage 6560 ft ambient temperature ["F] 6 during operation 7 4 +104 "F ambient temperature 8 during operation 7 20 +65 "C e during operation 7 20 +40 "C country of origin 8 USA Weight above ratings yielded mechanical performance [hp] for 3-phase AC motor 8 at 200/208 V rated value 15 hp 9 at 220/230 V rated value 15 hp 9 at 480/480 V rated value 0 hp 9 e at 575/600 V rated value 0 hp 9 Contactor 8 ize of contactor Network of main contacts or main contacts or main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 45 A mechanical service life (switching cycles) of the main contacts typical 4 mumber of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor	design of the product	Pump control panel with fused disconnect switch
weight [ib] Height x Width x Depth [in] 10uch protection against electrical shock installation altitude [it] at height above sea level maximum ambient temperature ["F] • during storage • during operation ambient temperature • during storage • during operation -20 +40 "C country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 200 contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contact st ypical Auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at	special product feature	ESP200 overload relay; Dual voltage coil
Height x Width x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation - during storage • during operation - 20 +40 °C country of origin WSA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 4576/600 V rated value • at 576/600 V rated value • of hp • at 576/600 V rated value • of NO contacts for main contacts size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of Not contacts at contactor for auxiliary contacts number of Not contacts at contacts of contactor according to UL Coil type of voltage of the control supply voltage AC	General technical data	
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during operation ambient temperature during storage during operation during operation country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 200/230 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value isize of contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 4.4 +40 °C 2.20 +40 °C 2.0 +40	ambient temperature [°F]	
ambient temperature • during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 0 hp • at 575/600 V rated value NEMA controller size 2 number of NC contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC	 during storage 	-22 +149 °F
• during storage • during operation country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 480/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • by potential of NO contacts for main contacts a operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value approved for (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contacts of contactor according to UL Coil type of voltage of the control supply voltage -30 +65 °C -20 +40 °C Con. +40 °C Col. +40 °C	during operation	-4 +104 °F
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country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 10 hp • at 220/230 V rated value 0 hp • at 460/480 V rated value 0 hp • at 575/600 V rated value 0 hp Contactor size of contacts for main contacts 3 soperating voltage for main current circuit at AC at 60 Hz maximum 240 V rated value 45 A mechanical service life (switching cycles) of the main contacts typical Auxilliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage AC	 during storage 	-30 +65 °C
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size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum rootact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage NEMA controller size 2 NEMA controller size 2 10000000 240 V 100000000 000000000 1000000000 1000000	• at 460/480 V rated value	0 hp
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number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage O 10A@600VAC (A600), 5A@600VDC (P600)	· · · · · · · · · · · · · · · · · · ·	10000000
number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 1 1 10A@600VAC (A600), 5A@600VDC (P600) AC	Auxiliary contact	
number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 7 10A@600VAC (A600), 5A@600VDC (P600) 10A@600VAC (A600), 5A@600VDC (P600)	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage 10A@600VAC (A600), 5A@600VDC (P600) AC	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage AC	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage AC		10A@600VAC (A600), 5A@600VDC (P600)
2)	Coil	
control supply voltage	type of voltage of the control supply voltage	AC
control cupping routings	control supply voltage	

at DC rated value	0 0 V
at AC at 50 Hz rated value	0 0 V
at AC at 60 Hz rated value	110 240 V
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 magnet coil	0.85 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	
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	13 52 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)	
 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	100A / 250V
design of fuse holder	Class H fuse clips
operating class of the fuse link	Class H, 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
type of Hand-Off-Auto selector switch	30mm metal housing with matte finish
product component start push button	Yes
type of start push button	30mm metal housing with matte finish
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
tightening torque [lbf·in] for supply	120 120 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 1/0 AWG)
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

tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at 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 at 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 at 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)

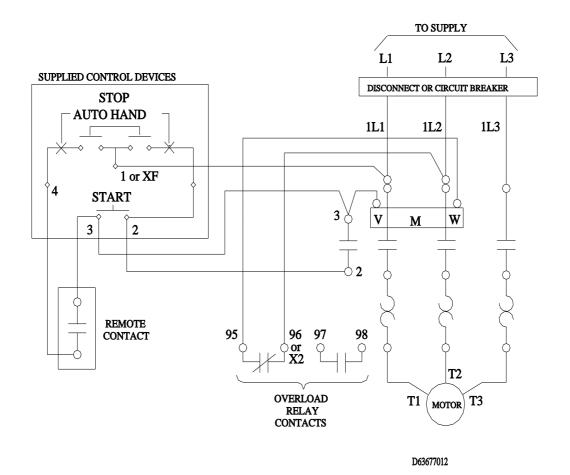
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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Certificates/approvals

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