

Slim Line Pump Control Panel NEMA size 1 Three phase full voltage Solid-state overload relay OLR amp range 3-12A 460VAC 60Hz Coil 30A fusible disconnect 30A/600V fuse clip 1NC / 1NO auxiliary contacts HOA Sel. Sw. <(>&<)> Start/Stop 3-point power terminal block 3-point control terminal block 3-point ground lug Enclosure NEMA type 3/3R Weather proof outdoor use

Product brand name	Class 82
Design of the product	Slim Line NEMA pump panel
Special product feature	ESP200 overload relay

General technical data

Weight [lb]	23 lb
Height x Width x Depth [in]	26 × 12 × 5 in
Protection against electrical shock	NA for enclosed products
Installation altitude [ft] at height above sea level maximum	6560 ft
Ambient temperature [°F]	
<ul style="list-style-type: none"> during storage during operation 	-22 ... +149 °F -4 ... +104 °F
Ambient temperature	
<ul style="list-style-type: none"> during storage during operation 	-30 ... +65 °C -20 ... +40 °C
Country of origin	Mexico

Horsepower ratings

Yielded mechanical performance [hp] for three-phase AC motor	
<ul style="list-style-type: none"> 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 0 hp 5 hp 0 hp

Contactors

Size of contactor	NEMA controller size 1
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	32 A
Mechanical service life (switching cycles) of the main contacts typical	10000000

Auxiliary contact

Number of NC contacts at contactor for auxiliary contacts	1
Number of NO contacts at contactor for auxiliary contacts	1
Number of total auxiliary contacts maximum	4
Contact rating of auxiliary contacts of contactor according to UL	A600 AC / Q600 DC

Coil

Type of voltage of the control supply voltage	AC
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	460 ... 460 V
Apparent pick-up power of magnet coil at AC	81 V·A
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	55 %
Switch-on delay time	8 ... 40 ms
Off-delay time	4 ... 16 ms

Overload relay

Product function	
• Overload protection	Yes
• Phase failure detection	Yes
• Phase unbalance	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 pick-up value current of the current-dependent overload release	3 ... 12 A
Trip 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
Operating current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A

<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 	600 V
	300 V

Disconnect Switch

Response value of switch disconnector	30A / 600V
Design of fuse holder	Class H fuse clips
Operating class of the fuse link	Class H, J (convertible), K and R

Enclosure

Degree of protection NEMA rating of the enclosure	NEMA 3/3R
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 chrome finish
Product component Start push button	Yes
Type of start push button	30mm metal housing with chrome finish

Mounting/wiring

Mounting position	Vertical
Mounting type	Surface mounting and installation
Type of electrical connection for supply voltage line-side	Box lug
Tightening torque [lbf-in] for supply	35 ... 35 lbf-in
Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded	1x (14 ... 2 AWG)
Temperature of the conductor for supply maximum permissible	75 °C
Material of the conductor for supply	AL or CU
Type of electrical connection of magnet coil	Screw-type terminals
Tightening torque [lbf-in] at magnet coil	7 ... 10 lbf-in
Type of connectable conductor cross-sections of magnet coil at AWG conductors 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	7 ... 10 lbf-in

Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded	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 at AWG conductors 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
Type of electrical connection for load-side outgoing feeder with screw-type terminals	Screw-type terminals
Tightening torque [lbf-in] for load-side outgoing feeder with screw-type terminals	24 ... 32 lbf-in
Type of connectable conductor cross-sections for load-side outgoing feeder with screw-type terminals single or multi-stranded	1x (18 ... 2 AWG)
Temperature of the conductor for load-side outgoing feeder with screw-type terminals maximum permissible	75 °C
Material of the conductor for load-side outgoing feeder with screw-type terminals	CU
Type of electrical connection for control connection with screw-type terminals	Screw-type terminals
Tightening torque [lbf-in] for control connection with screw-type terminals	12 ... 18 lbf-in
Type of connectable conductor cross-sections at AWG conductors for control connection with screw-type terminals single or multi-stranded	1x (22 ... 8 AWG)
Temperature of the conductor for control connection with screw-type terminals maximum permissible	75 °C
Material of the conductor for control connection with screw-type terminals	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=US2:82ADC6FBH>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:82ADC6FBH>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:82ADC6FBH&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:82ADC6FBH/certificate>

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