



Figure similar

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  
design of the product  
special product feature

Class 82  
Slim Line NEMA pump panel  
ESP200 overload relay

### General technical data

weight [lb]	23 lb
Height x Width x Depth [in]	26 × 12 × 5 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	Mexico

### 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	5 hp
• at 575/600 V rated value	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
operational current at AC at 600 V rated value	32 A
mechanical service life (operating cycles) of the main contacts typical	10000000

### Auxiliary contact

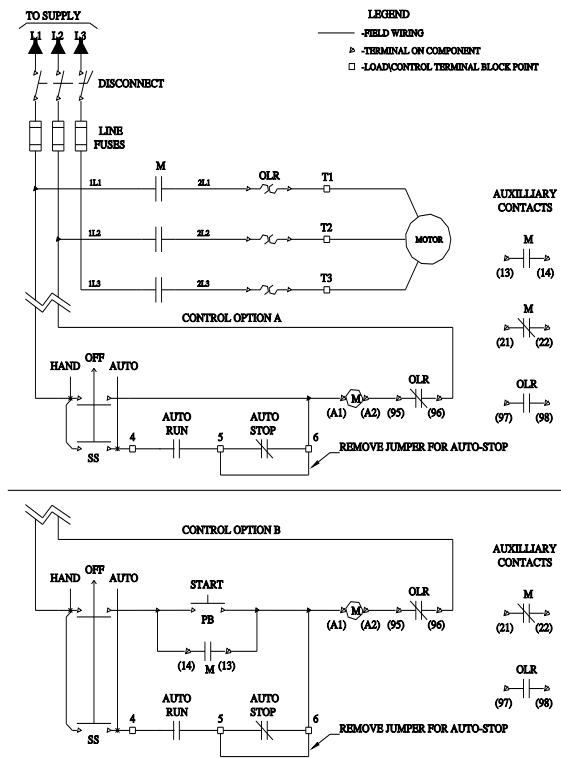
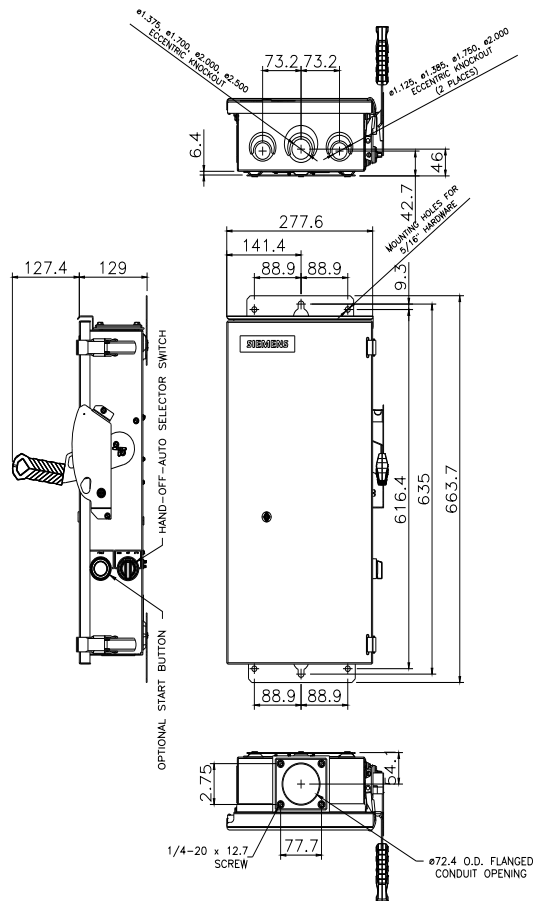
number of NC contacts at contactor for auxiliary contacts	1
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	4
contact rating of auxiliary contacts of contactor according to UL	A600 AC / Q600 DC

### 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

<ul style="list-style-type: none"> <li>• at AC at 60 Hz rated value</li> </ul>	460 ... 460 V
apparent pick-up power of magnet coil at AC	81 VA
operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1
percentual drop-out voltage of magnet coil related to the input voltage	55 %
ON-delay time	8 ... 40 ms
OFF-delay time	4 ... 16 ms
<b>Overload relay</b>	
product function	
<ul style="list-style-type: none"> <li>• overload protection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• phase failure detection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• asymmetry detection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• ground fault detection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• test function</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• external reset</li> </ul>	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	3 ... 12 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	
<ul style="list-style-type: none"> <li>• at AC at 600 V</li> </ul>	5 A
<ul style="list-style-type: none"> <li>• at DC at 250 V</li> </ul>	1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
<ul style="list-style-type: none"> <li>• with single-phase operation at AC rated value</li> </ul>	600 V
<ul style="list-style-type: none"> <li>• with multi-phase operation at AC rated value</li> </ul>	300 V
<b>Disconnect Switch</b>	
response value of switch disconnector	30A / 600V
design of fuse holder	Class H fuse clips
operating class of the fuse link	Class H, J (retrofitable), K and R
<b>Enclosure</b>	
degree of protection NEMA rating of the enclosure	NEMA Type 3R
design of the housing	Weather proof for outdoor use
<b>Standard Control Devices</b>	
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
<b>Mounting/wiring</b>	
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	35 ... 35 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables 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 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	7 ... 10 lbf-in
type of connectable conductor cross-sections at contactor at AWG cables 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 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
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 cables 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
<b>Short-circuit current rating</b>	
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
<b>Further information</b>	
<b>Industrial Controls - Product Overview (Catalogs, Brochures,...)</b> <a href="http://www.usa.siemens.com/iccatalog">www.usa.siemens.com/iccatalog</a> <b>Industry Mall (Online ordering system)</b> <a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:82ADC6FBH">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:82ADC6FBH</a> <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="https://support.industry.siemens.com/cs/US/en/ps/US2:82ADC6FBH">https://support.industry.siemens.com/cs/US/en/ps/US2:82ADC6FBH</a> <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b> <a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:82ADC6FBH&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:82ADC6FBH&amp;lang=en</a> <b>Certificates/approvals</b> <a href="https://support.industry.siemens.com/cs/US/en/ps/US2:82ADC6FBH/certificate">https://support.industry.siemens.com/cs/US/en/ps/US2:82ADC6FBH/certificate</a>	



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last modified:

1/25/2022

