## **SIEMENS**

Data sheet US2:88LPSP2MF

	Reduced voltage pump panel, Two step part winding, Size 5, 230V 3-phase motor voltage, Solid-state overload relay, OLR amp range 55-250A, 110-127V 50-
	60Hz/DC coil, 400A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure
product brand name	NEMA type 3/3R, Weather proof outdoor use Class 88
product brand name  design of the product	Reduced voltage pump panel with MCP - Two step part winding
special product feature	Gravity dropout contacts; 45 degree, wedge action contacts; Self-rising
special product readile	pressure type control terminals; Encapsulated coil
General technical data	
weight [lb]	402 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
<ul> <li>during operation</li> </ul>	-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	125 hp
• at 460/480 V rated value	0 hp
at 575/600 V rated value	0 hp
Contactor	o np
size of contactor	NEMA controller size 5
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	230 V
operational current at AC at 600 V rated value	270 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	110 127 V
holding power at AC minimum	7.4 W
apparent pick-up power of magnet coil at AC	590 VA
apparent holding power of magnet coil at AC	6.7 VA
operating range factor control supply voltage rated value of	0.7 VA 0.85 1.1
magnet coil  percental drop-out voltage of magnet coil related to the input	60 %
voltage	
ON-delay time	30 95 ms
OFF-delay time	40 80 ms
Overload relay	

type of the motor protection operational current of motor circuit breaker rated value diguisable current response value current of instantaneous short-circuit trip unit  Mounting wiring  mounting position fastening method type of electrical connection for supply voltage line-side type of orientable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible of load-side outgoing feeder tightening torque (libf-in) for load-side outgoing feeder type of orientable conductor cross-sections of magnet coil type of electrical connection for load-side outgoing feeder tightening torque (libf-in) at magnet coil temperature of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder tightening torque (libf-in) at magnet coil type of one-ctable conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder supply of connectable conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder supply of electrical connection of magnet coil type of one-ctable conductor cross-sections of magnet coil type of one-ctable conductor cross-sections of magnet coil of magnet coil type of one-ctable conductor or cross-sections at contactor for auxiliary contacts tightening torque (libf-in) at contactor for auxiliary contacts tightening torque (libf-in) at contactor for auxiliary contacts type of electrical connection at contactor for auxiliary contacts type of contectable conductor cross-sections at contactor for AWG cables for auxiliary contacts type of contectable conductor at contactor for auxiliary contacts type of electrical connection at contactor for auxiliary contacts and many permissible material of the conductor at contactor for auxiliary contacts and many permissible contacts  To C		
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* external reset     * ex		
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material of the conductor for supply  AL or CU  type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for magnet coil type of connectable conductor or ses-sections of magnet coil type of connectable conductor at magnet coil and the conductor of a maximized and the conductor of the conductor of a maximized and the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable c	mounting position fastening method	Surface mounting and installation
material of the conductor for supply  AL or CU  type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for magnet coil type of connectable conductor or ses-sections of magnet coil type of connectable conductor at magnet coil and the conductor of a maximized and the conductor of the conductor of a maximized and the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable conductor cross-sections at overload relay or auxiliary contacts type of connectable c	mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side for	Surface mounting and installation  Box lug
tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  permissible  temperature of the conductor at magnet coil maximum  permissible  temperature of the conductor at magnet coil maximum  permissible  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of electrical connection at contactor for auxiliary contacts  type of connectable conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  temperature of the conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  material of the conductor at contactor for auxiliary contacts  contacts  type of electrical connection at overload relay for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  to the first type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil stemperature of the conductor rorss-sections at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts fightening torque [lbf-in] at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts for	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 temperature of the conductor for supply maximum permissible	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder with the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil 7 10 lbf-in 2x (18 14 AWG)  The conductor at magnet coil with the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible with the conductor at magnet coil with the conductor of auxiliary contacts with the conductor of auxiliary contacts with the conductor of the conductor for auxiliary contacts with the conductor at contactor for auxiliary contacts and the conductor at contactor for auxiliary contacts with the conductor at contac	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 temperature of the conductor for supply maximum permissible material of the conductor for supply	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU
maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  cut  type of electrical connection at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 16 AWG)  2x (18 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug
type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor cross-sections at contactor for AWG cables for auxiliary contacts in a contactor for auxiliary contacts  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 16 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf·in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0
type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor cross-sections at contactor for AWG cables for auxiliary contacts in a contactor for auxiliary contacts  temperature of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary  contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 16 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf·in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0  AWG 2x 500 MCM (both front & back)
tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  7 10 lbf-in  2x (18 14 AWG)  CU  5° C  CU  Screw-type terminals  CU  Screw-type terminals  7 10 lbf-in  Screw-type terminals  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible	Surface mounting and installation Box lug 2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C AL or CU Box lug 180 195 lbf·in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back) 75 °C
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  temperature of the conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (18 14 AWG)  CU  2x (20 16 AWG), 2x (18 14 AWG)  75 °C  CU  Screw-type terminals  CU  Screw-type terminals  Cu  Tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder	Surface mounting and installation Box lug 2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C AL or CU Box lug 180 195 lbf-in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back) 75 °C AL or CU
material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2 CU  2 CU  3 Cu  4 AWG)  5 °C  CU  5 Crew-type terminals  CU  5 Crew-type terminals  7 10 lbf-in  2 Cu  1 Dlf-in  2 Cu  1 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf-in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0  AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals
material of the conductor at magnet coil  type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2 (20 16 AWG), 2x (18 14 AWG)  75 °C  CU  Screw-type terminals  CU  Screw-type terminals  7 10 lbf-in  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf·in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals  7 10 lbf·in
type of electrical connection at contactor for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf·in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals  7 10 lbf·in  2x (18 14 AWG)
tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2 x (20 16 AWG), 2x (18 14 AWG)  CU  Screw-type terminals  7 10 lbf-in  2 x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf·in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0  AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals  7 10 lbf·in  2x (18 14 AWG)  75 °C
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 16 AWG), 2x (18 14 AWG)  CU  Screw-type terminals  7 10 lbf-in  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil	Surface mounting and installation Box lug 2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C AL or CU Box lug 180 195 lbf·in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back) 75 °C  AL or CU Screw-type terminals 7 10 lbf·in 2x (18 14 AWG)  75 °C  CU
temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible	Surface mounting and installation Box lug 2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C AL or CU Box lug 180 195 lbf-in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back) 75 °C  AL or CU Screw-type terminals 7 10 lbf-in 2x (18 14 AWG)  75 °C  CU Screw-type terminals
material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts	Surface mounting and installation Box lug 2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C AL or CU Box lug 180 195 lbf-in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back) 75 °C  AL or CU Screw-type terminals 7 10 lbf-in 2x (18 14 AWG)  75 °C  CU Screw-type terminals 7 10 lbf-in
type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts	Surface mounting and installation Box lug 2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C AL or CU Box lug 180 195 lbf·in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back) 75 °C  AL or CU Screw-type terminals 7 10 lbf·in 2x (18 14 AWG)  75 °C  CU Screw-type terminals 7 10 lbf·in 2x (20 16 AWG), 2x (18 14 AWG)
tightening torque [lbf-in] at overload relay for auxiliary contacts  7 10 lbf-in  type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf-in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals  7 10 lbf-in  2x (18 14 AWG)  75 °C  CU  Screw-type terminals  7 10 lbf-in  2x (20 16 AWG), 2x (18 14 AWG)
type of connectable conductor cross-sections at overload relay  2x (20 14 AWG)	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf-in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals  7 10 lbf-in  2x (18 14 AWG)  75 °C  CU  Screw-type terminals  7 10 lbf-in  2x (20 16 AWG), 2x (18 14 AWG)  75 °C
for AWG cables for auxiliary contacts single or multi-stranded	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 temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts	Surface mounting and installation  Box lug  2x (3/0 500 kcmil) or 2x (4/0 500 kcmil)  75 °C  AL or CU  Box lug  180 195 lbf-in  3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0  AWG 2x 500 MCM (both front & back)  75 °C  AL or CU  Screw-type terminals  7 10 lbf-in  2x (18 14 AWG)  75 °C  CU  Screw-type terminals  7 10 lbf-in  2x (20 16 AWG), 2x (18 14 AWG)  75 °C  CU  Screw-type terminals

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	

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