## **SIEMENS**

Data sheet US2:18DUC92NC



Non-reversing motor starter Size 1 Three phase full voltage Solid-state overload relay OLRelay amp range 3-12A 220-240/440-480VAC 60HZ coil Combination type 10Amp circuit breaker Enclosure NEMA type 4/12 Water/dust tight for outdoors Standard width enclosure

product brand name	Class 18 & 26	
design of the product	Full-voltage non-reversing motor starter with motor circuit protector	
special product feature	ESP200 overload relay; Dual voltage coil	
General technical data		
Height x Width x Depth [in]	24 × 11 × 8 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	
<ul> <li>during operation</li> </ul>	-20 +40 °C	
Horsepower ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V rated value	2 hp	
• at 220/230 V rated value	2 hp	
• at 460/480 V rated value	5 hp	
• at 575/600 V rated value	5 hp	
Contactor		
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	27 A	
mechanical service life (operating cycles) of the main contacts typical	1000000	
Auxiliary contact		
number of NC contacts at contactor for auxiliary contacts	0	
number of NO contacts at contactor for auxiliary contacts	1	
number of total auxiliary contacts maximum	8	
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)	
Coil		
type of voltage of the control supply voltage	AC	
control supply voltage		
at AC at 60 Hz rated value	220 480 V	
holding power at AC minimum	8.6 W	
apparent pick-up power of magnet coil at AC	218 VA	
apparent holding power of magnet coil at AC	25 VA	
operating range factor control supply voltage rated value of magnet coil	0.85 1.1	

ON-efficient prime One-official grips Product function  # phase failure detection # phase failure detection # phase failure detection # product function # phase failure detection # product function # phase failure detection # or ground fault detection # or determal report # or dete	percental drop-out voltage of magnet coil related to the input voltage	50 %
OPE-facility time  Overload rindle  Overload product function  Asymmetry detection  Asymmetry detection  Overload product function  Yes  Overload product function  Minimal, automatic and remote  Fib product function  Overload product		19 29 ms
Overland Induction   Ves   V	·	10 24 ms
product function	•	
• verticated protection     • prisons failure detection	<u></u>	
Papsase follure descrion	·	Yes
• a symmetry detection     • ground fault detection     • cleaf function     • caternal reset     ** Caternal	·	
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- test function - vectorial reset - ceed trunction - Manuel, automatic and remote - CLASS 5 / 10 / 20 (factory set) / 30 - adjustable current response value current of the current-dependent overfoad release - make time with automatic start after power failure maximum - alse time with automatic start after power failure maximum - relative repeat accuracy - product feature productive coaling on printed-circuit board - automatic of NC contacts of auxiliary contacts of overload relay - automatic of auxiliary contacts of overload relay - automatic and remote - product feature productive coaling on printed-circuit start productive failure maximum - automatic productive coaling on printed-circuit productive failure productive failur		
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number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay at NC at 800 V at DC at 250 V 1A contact rating of auxiliary contacts of overload relay with single-phase operation at AC rated value with single-phase operation at AC rated value with single-phase operation at AC rated value with multi-phase operation at AC rated value sogn of the housing Circuit product design of the housing Circuit product or the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit fro unit Mounting/wiring mounting position Vertical fastening method lype of electrical connection for supply voltage line-side flastening method lype of electrical connection for supply voltage line-side of AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder subtening permissible material of the conductor for load-side outgoing feeder subtening permissible subject of connectable conductor for load-side outgoing feeder subtening to repulsion subtening the productor for load-side outgoing feeder subtening the conductor for load-side outgoing feeder subtening the productor for load-side outgoing feeder subtening the	relative repeat accuracy	1 %
number of NO contacts of auxiliary contacts of overload relay  at AC at 800 V at DC at 250 V 5 A 1 A Contact rating of auxiliary contacts of overload relay according to  insulation voltage (UI) a with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value design of the housing design of the housing design of the housing design of the notor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous  short-circuit bry unit  Mounting/wifnin  mounting position fastening method Uype of electrical connectable conductor for supply voltage 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 connectable conductor rose-sections at line-side or  type of electrical connectable conductor for supply type of electrical connectable conductor for supply type of electrical connectable conductor for supply type of connectable conductor for supply type of electrical connectable conductor for load-side outgoing feeder spiteming torque [bif in] for load-side outgoing feeder flype of electrical connectable conductor for load-side outgoing feeder maximum permissible  Type of electrical connectable conductor for load-side outgoing feeder maximum permissible  Type of electrical connectable conductor for load-side outgoing feeder maximum permissible  Type of electrical connectable conductor for load-side outgoing feeder maximum permissible  Type of electrical connectable conductor for load-side outgoing feeder maximum permissi	product feature protective coating on printed-circuit board	Yes
number of NO contacts of auxiliary contacts of overload relay  • at AC at 500 V  • at DC at 250 V  • with single-phase operation at AC rated value • with multi-phase operation of the phase operation o	number of NC contacts of auxiliary contacts of overload relay	1
operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 259 V  5 A  at DC at 259 V  5 A  contact rating of auxiliary contacts of overload relay according to UL  insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  • with multi-phase operation at AC rated value  600 V  600	·	1
at AC at 600 V at DC at 250 V b at DC at 250 V contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI) b with single-phase operation at AC rated value b with multi-phase ope		
contact rating of auxiliary contacts of overload relay according to U.I. insulation voltage (Ui)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  600 V  200 V  Enclosure  design of the housing  Circuit Breaker  Circuit Breaker  When motor protection Operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position Statening method Surface mounting and installation type of electrical connection for supply voltage line-side bype 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 tor supply waximum permissible material of the conductor for load-side outgoing feeder stightening torque [librin] for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder sort outper (librin) at magnet coil sort outpermissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder sort outpermissible material of the conductor for load-side outgoing feeder  15 ° C  24 (16 12 AWG)  24 (16 12 AWG)  25 ° C  26 ° C  27 ° C  28 ° C  29 ° C  20 °	• at AC at 600 V	5 A
Insulation voltage (UI)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  **Brooksuro**  **Circuit Brooker**  Upe of the motor protection  fastening method  type of electrical connection for supply maximum permissible  material of the conductor for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  Mype of electrical connection for load-side outgoing feeder  Mype of connectable conductor cross-sections of magnet coil  for load-side outgoing feeder single or multi-stranded  for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  Mype of electrical connection for load-side outgoing feeder  Strew-type terminals  for load-side outgoing feeder single or multi-stranded  for load-side outgoing feeder single or multi-stranded  full final for the conductor for load-side outgoing feeder  AL or CU  Strew-type terminals  fightening torque [IbFin] for load-side outgoing feeder  Mype of electrical connection for load-side outgoing feeder  Mype of electrical connection for load-side outgoing feeder  Strew-type terminals  for load-side outgoing feeder single or multi-stranded  full final for the conductor for load-side outgoing feeder  Mype of electrical connection of magnet coil  Strew-type terminals  fightening torque [IbFin] at magnet coil  fype of electrical connection of magnet coil for AMG cables single or multi-stranded  full final fi	• at DC at 250 V	1 A
with single-phase operation at AC rated value with multi-phase operation at AC rated value as on V  Enclosure  design of the housing  Circuit Breakor  Type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit standard of response value current of instantaneous short-circuit trip unit wounting position fastening method surface mounting and installation Surface mounting and installation surface mounting and installation surface mounting and installation  wounting viring  mounting position fastening method Surface mounting and installation surface mounting and installation surface mounting and installation surface mounting and installation  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  AL or CU stype of electrical connection for supply maximum permissible material of the conductor for supply maximum permissible for load-side outgoing feeder stype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder surface mounting and installation  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  4x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  1x (14 AWG 10 AWG)  1x (14 AWG 10 AWG)  1x (14 2 AWG)  1x (15 12 Ibf-in  1x (15 1		5A@600VAC (B600), 1A@250VDC (R300)
with multi-phase operation at AC rated value      Brotosure  design of the housing  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wirng  mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side temperature of the conductor for supply maximum permissible material of the conductor cross-sections of magnet coil for supply temperature of the conductor for load-side outgoing feeder type of onenectable conductor cross-sections of magnet coil for screw-type terminals tightening torque [lbf-in] for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil screw-type terminals tightening torque [lbf-in] at magnet coil type of electrical connection of magnet coil type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor cross-sections of magnet coil for 2x (16 12 AWG)  Corew-type terminals tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of sugner coil type of electrical connection of musiliary contacts tightening torque [lbf-in] at ontactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [	insulation voltage (Ui)	
design of the housing  Circuit Breaker  Upe of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit short-circuit	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
Circuit Breaker  Type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Motor circuit protector (magnetic trip only) operational current response value current of instantaneous short-circuit trip unit  Mounting/wring  mounting position  Vertical  Surface mounting and installation 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 connectable conductor cross-sections for AWG cables or load-side outgoing feeder shiphening torque [libf-in] for load-side outgoing feeder when the conductor for load-side outgoing feeder shiphening torque [libf-in] at magnet coil tightening torque [libf-in] at magnet coil tightening torque [libf-in] at magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder AWG cables single or multi-stranded temperature of the conductor at magnet coil type of electrical connection for magnet coil type of electrical connection for magnet coil Type of connectable 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 connectable conductor at contactor for auxiliary contacts Type of connectable conductor at contactor for auxiliary con	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Circuit Breaker  Type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/viring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug Type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible Type of electrical connection for load-side outgoing feeder Strew-type terminals Stightening torque [lbf-in] at magnet coil Stype of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of electrical connection for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor for load-side outgoing feeder Maximum permissible Type of connectable conductor at magnet coil Type of connectable conductor	Enclosure	
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operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position  fastening method Vertical Surface mounting and installation 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 maximum permissible material of the conductor for load-side outgoing feeder stightening torque [ibf-in] for load-side outgoing feeder stor load-side outgoing feeder sor load-side conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil sor connectable conductor or multi-stranded temperature of the conductor for multi-stranded temperature of the conductor at magnet coil sor connectable conductor at magnet coil type of electrical connection of auxiliary contacts tightening torque [ibf-in] at contactor for auxiliary contacts to the conductor at contactor for auxiliary contacts tightening torque [ibf-in] at contactor for auxiliary contacts to the conductor at contactor for auxiliary contacts	Circuit Breaker	
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Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  Box lug  ype of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  type of electrical connection 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  type of connectable conductor for load-side outgoing feeder  trype of connectable 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  type of connectable conductor at magnet coil maximum  permissible  To °C  La La C U  type of connectable conductor at magnet coil  cu  type of connectable conductor at magnet coil  type of connectable conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to 12 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  temperature of the conductor at contactor for auxiliary contacts  to contact at co	operational current of motor circuit breaker rated value	10 A
mounting position fastening method Vertical Surface mounting and installation type of electrical connection for supply voltage line-side Box lug Vype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible To C Material of the conductor for supply maximum permissible To C Material of the conductor for supply maximum permissible To C Material of the conductor for supply maximum permissible To C Material of the conductor for supply Material of the conductor for supply Material of the conductor cross-sections for AWG cables For load-side outgoing feeder Material of the conductor for load-side outgoing feeder Maximum permissible Material of the conductor for load-side outgoing feeder Material of the conductor of magnet coil Material of the conductor of magnet coil Material of the conductor at magnet coil for AWG cables single or multi-stranded  Material of the conductor at magnet coil maximum Material of the conductor at contactor	·	30 100 A
mounting position  Vertical  fastening method  Surface mounting and installation  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 maximum permissible  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  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  AL or CU  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  material of the conductor at magnet coil CU  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  temperature of the conductor at contactor for auxiliary contacts  to connectable conductor at contactor for auxiliary contacts  to fine for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  to fine for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  To C	·	
fastening method  type of electrical connection for supply voltage line-side  Box lug  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 maximum permissible  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder  stemperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cables 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 electrical connection of magnet coil  type of electrical 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 conductor at magnet coil for AWG cables single or multi-stranded  temperature of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  tightening torque [lbf-in] 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 at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  for connectable conductor at contactor for auxiliary contac		Vertical
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 maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor of magnet coil type of connectable conductor cross-sections of magnet coil for AWG cables 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 screw-type terminals tightening torque [lbf-in] at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil type of electrical connection for auxiliary contacts screw-type terminals 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 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 connectable conductor at contactor for auxiliary contacts type of connectable conductor at cont		- 111
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 connectable conductor cross-sections for AWG cables for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  type of connectable 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 electrical connection of magnet coil  screw-type terminals  tightening torque [lbf-in] at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil sightening torque [lbf-in] 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  75 °C	idotoriii g motiod	Surface mounting and installation
temperature of the conductor for supply maximum permissible material of the conductor for supply  type of electrical connection for load-side outgoing feeder screw-type terminals 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 material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor at contactor for auxiliary contacts tightening torque screen at contactor for auxiliary contacts tightening torque screen at contactor for multi-stranded temperature of the conductor at contactor for auxiliary contacts tightening torque flbf-in] at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor cross-sections at contactor for auxiliary contacts tightening torque flbf-in] at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor at contactor for auxiliary contacts to u. 15 lbf-in type of connectable conductor at contactor for auxilia	type of electrical connection for supply voltage line-side	
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 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 for AWG cables on 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 magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts to 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 to connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts to connectable conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to contact at the conductor at contactor for auxiliary contacts to conductor at contactor for auxiliary contacts to conductor at conductor at contactor for auxiliary contacts to conductor at conducto	type of connectable conductor cross-sections at line-side for	Box lug
type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder 35 35 lbf-in  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  material of the conductor at magnet coil maximum permissible  material of the conductor of magnet coil for AWG cables or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts to 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)
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 stightening torque [lbf-in] at magnet coil stemperature of the 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 magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts to type of electrical connection for auxiliary contacts to type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of connectable conductor of auxiliary contacts to type of connectable conductor of the co	type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 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  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  material of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to understand the conductor at magnet coil  type of connectable conductor at maximum permissible  material of the conductor at magnet coil  type of connectable conductor at maximal contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to understand the conductor at maximal contactor for auxiliary contacts  to understand the conductor at contactor for auxiliary contacts  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  temperature of the conductor at contactor for auxiliary contacts  75 °C	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU
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 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  material of the conductor at magnet coil  type of electrical connection 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  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals
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  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 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  75 °C	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in
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 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  75 °C  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)
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 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  75 °C  12 lbf-in  2x (16 12 AWG)  CU  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  Tx (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  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 magnet coil  type of electrical connection 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  75 °C  2x (16 12 AWG)  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  75 °C  AL or CU
temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection 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  75 °C  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  Tx (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals
material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  Screw-type terminals  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  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)  75 °C	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf·in
type of electrical connection 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  75 °C	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf in  2x (16 12 AWG)
tightening torque [lbf-in] at contactor for auxiliary contacts  10 15 lbf-in  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  75 °C	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf·in  2x (16 12 AWG)
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  75 °C	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	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf-in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C  CU
temperature of the conductor at contactor for auxiliary contacts 75 °C	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 for auxiliary contacts	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf-in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C  CU  Screw-type terminals
	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 for auxiliary contacts tightening torque [lbf·in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for	Box lug  1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)  75 °C  AL or CU  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf·in  2x (16 12 AWG)  75 °C  CU  Screw-type terminals  10 15 lbf·in

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; CSA 22.2, No.14
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

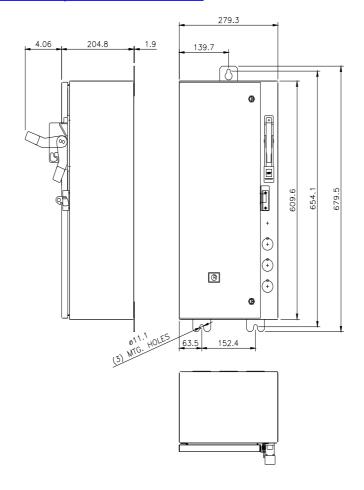
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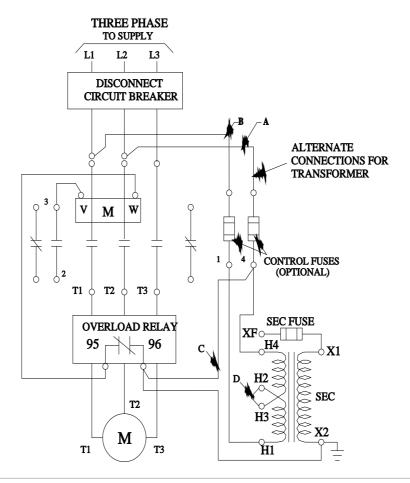
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## Certificates/approvals

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