## **SIEMENS**

Data sheet US2:14DUD12FA



Non-reversing motor starter, Size 1, Single phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, Non-combination type, Enclosure type 4X fiberglass, Water/dust tight noncorrosive, Standard width enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay; Dual voltage coil
General technical data	
weight [lb]	14 lb
Height x Width x Depth [in]	15 × 12 × 7 in
touch protection against electrical shock	(NA for enclosed products)
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for single-phase AC motor	
• at 115 V rated value	1 hp
• at 200/208 V rated value	2 hp
• at 220/230 V rated value	2 hp
Contactor	
size of contactor	NEMA controller size 1
number of NO contacts for main contacts	2
operating voltage for main current circuit at AC at 60 Hz maximum	240 V
operational current at AC at 600 V rated value	27 A
mechanical service life (operating cycles) of the main contacts typical	10000000
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	110 240 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	0.85 1.1

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OFF-clearly time  **Overload protection **Ov		19 29 ms
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e at AC at 600 V at AC at 250 V 1A  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  ### AC at 600 V  ### AC at 60	number of NC contacts of auxiliary contacts of overload relay	1
at AC at 800 V at DC at 250 V at DC at 250 V at DC at 250 V based 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  according to the housing  design of the housing  Dust-light, waterlight & corrosion resistant  Mounting/Wiring  mounting position  Vertical fastening method stream of electrical connection for supply voltage line-side Surface mounting and installation type of electrical connection for supply waximum permissible material of the conductor for supply maximum permissible tightening torque [Ibf-in] for ads-side outgoing feeder stream of the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in according to the conductor for load-side outgoing feeder stream in the conductor of load-side outgoing feeder stream in the load-	number of NO contacts of auxiliary contacts of overload relay	1
● at DC at 250 V  contact rating of auxillary 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 mu	operational current of auxiliary contacts of overload relay	
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U.  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   ### Support	• at DC at 250 V	1 A
with single-phase operation at AC rated value with multi-phase operation at AC rated value 300 V  **with multi-phase operation at AC rated value  **With multi-phase operation at AC rated value  **With multi-phase operation at AC rated value  **AC, fiber glass  **Dust-tight, watertight & corrosion resistant  **Mounting/wiring  **mounting position  **mounting position  **preciate of electrical connection for supply voltage line-side  **store of electrical connection for supply voltage line-side  **tightening torque [lbf-in] for supply  **ye of connectable conductor rorss-sections at line-side for AWG cables single or multi-stranded  **tightening torque [lbf-in] for load-side outgoing feeder  **tightening torque [lbf-in] for load-side outgoing feeder  **tightening torque [lbf-in] for load-side outgoing feeder  **type of connectable conductor cross-sections for AWG cables  **torgeture of the conductor for load-side outgoing feeder  **type of connectable conductor or 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 of 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 on the conductor of auxiliary contacts  **type of connectable conductor or cross-sections at contactor for AWG cables for auxiliary contacts  **type of connectable conductor or or auxiliary contacts  **type of connectable conductor or or auxiliary contacts  **type of connectable conductor or or auxiliary contacts  **type of connectable conductor at contactor f		5A@600VAC (B600), 1A@250VDC (R300)
ewith multi-phase operation at AC rated value  Brolosure  degree of protection NEMA rating	insulation voltage (Ui)	
ewith multi-phase operation at AC rated value  Brolosure  degree of protection NEMA rating	with single-phase operation at AC rated value	600 V
degree of protection NEMA rating  design of the housing  Dust-tight, watertight & corrosion resistant  Mounting/wiring  mounting position  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  Screw-type terminals  tightening torque [lib-fin] for supply  ype 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 load-side outgoing feeder  stightening torque [lib-fin] for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  stightening torque [lib-fin] 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  AL or CU  type of electrical connection of magnet coil  screw-type terminals  tightening torque [lib-fin] fat magnet coil  screw-type terminals  tightening torque [lib-fin] at magnet coil  screw-type terminals  tightening torque [lib-fin] at magnet coil screw-type terminals  tightening torque [lib-fin] at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil screw-type terminals  tightening torque [lib-fin] at contactor for auxiliary contacts  type of electrical connection for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables single or multi-stranded  temperature of the conductor cross-sections at contactor for AWG cables so for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts  for connectable conductor at contactor for auxiliary contacts  for connectable conductor at contactor for auxiliary contacts  for connectabl		300 V
Dust-tight, watertight & corrosion resistant	Enclosure	
mounting position		
mounting position	degree of protection NEMA rating	4X, fiber glass
fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  ype of connectable conductor cross-sections at line-side for AWC cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply maximum permissible  ype of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections for AWC cables for load-side outgoing feeder  type of connectable conductor for supply  material of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections for AWC 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 of load-side outgoing feeder  AL or CU  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 AWC 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  to 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C  Type of connectable conductor at contactor for auxiliary contacts  to 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)		
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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  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 for load-side outgoing feeder  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  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  maximum permissible  1x(14 - 2 AWG)  2x - 2 AWG  x(14 - 2 AWG)  x(14 - 12 AWG)  x(16 - 12 AWG)  x(16 - 12 AWG)  x(16 - 12 AWG)  x(16 - 14 AWG), 2 x (18 - 16 AWG)  x(12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  x(12 AWG), 2 x (16 - 14 AWG)  x(12 AWG), 2 x (16 - 14 AWG)  x(12 AWG), 2 x (16 - 14 AWG)	design of the housing  Mounting/wiring  mounting position	Dust-tight, watertight & corrosion resistant  Vertical
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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 cut 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 cut type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to cut type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts for auxiliary contacts  to cut 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  Tx(12 AWG)  Tx (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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  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 cut 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 cut type of connectable conductor at magnet coil cut type of connectable conductor at magnet coil cut type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  to cut 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  75 °C  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)
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 cutype 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 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  75 °C  CU  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	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG) 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  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections of magnet coil  CU  type of connectable conductor at magnet coil  type of connectable conductor 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  AL or CU  screw-type terminals  CU  CU  type of connectable conductor at magnet coil  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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  maximum permissible  AL or CU  screw-type terminals  2 x (16 - 12 AWG)  CU  CU  type of connectable conductor at magnet coil  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C  75 °C	design of the housing  Mounting/wiring  mounting position fastening method  type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply  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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x(14 - 2 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 ross-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  screw-type terminals  10 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)	design of the housing  Mounting/wiring  mounting position fastening method  type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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  maximum permissible  5 12 lbf-in  2 x (16 - 12 AWG)  CU  Screw-type terminals  10 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C	design of the housing  Mounting/wiring  mounting position fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)
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  maximum permissible  2 x (16 - 12 AWG)  2 x (16 - 12 AWG)  3 crew-type terminals  10 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)  75 °C AL or CU Screw-type terminals 35 35 lbf·in 1x(14 - 2 AWG)
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  maximum permissible  75 °C  CU  10 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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 35 35 lbf·in 1x(14 - 2 AWG)
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 maximum permissible  CU  screw-type terminals  10 15 lbf-in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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 35 35 lbf·in 1x(14 - 2 AWG)  75 °C AL or CU Screw-type terminals 5 12 lbf·in
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  10 15 lbf·in  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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 35 35 lbf·in 1x(14 - 2 AWG)  75 °C AL or CU screw-type terminals 5 12 lbf·in 2 x (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 maximum permissible  1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf·in 1x(14 - 2 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 35 35 lbf·in 1x(14 - 2 AWG)  75 °C AL or CU screw-type terminals 5 12 lbf·in 2 x (16 - 12 AWG)
AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  75 °C	design of the housing  Mounting/wiring  mounting position fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply 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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x(14 - 2 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 35 35 lbf-in 1x(14 - 2 AWG)  75 °C AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG)  75 °C  CU
temperature of the conductor at contactor for auxiliary contacts maximum permissible  75 °C	design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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	Dust-tight, watertight & corrosion resistant  Vertical  Surface mounting and installation  Screw-type terminals  35 35 lbf-in  1x(14 - 2 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  2 x (16 - 12 AWG)  75 °C  CU  screw-type terminals
	mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 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 magnet coil maximum permissible of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x(14 - 2 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 35 35 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C CU screw-type terminals 10 15 lbf-in
	design of the housing  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  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 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 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 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 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 contactor for auxiliary contacts	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x(14 - 2 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 35 35 lbf-in 1x(14 - 2 AWG)  75 °C AL or CU Screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG)  75 °C  CU Screw-type terminals 10 15 lbf-in 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)
type of electrical connection at overload relay for auxiliary screw-type terminals	design of the housing  Mounting/wiring  mounting position  fastening method  type of electrical connection for supply voltage line-side  tightening torque [lbf-in] for supply  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 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  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	Vertical Surface mounting and installation Screw-type terminals 35 35 lbf-in 1x(14 - 2 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 35 35 lbf-in 1x(14 - 2 AWG) 75 °C AL or CU screw-type terminals 5 12 lbf-in 2 x (16 - 12 AWG) 75 °C CU screw-type terminals 10 15 lbf-in 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG) 75 °C

contacts	
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	2 x (20 - 14 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	14 kA
• at 480 V	10 kA
● at 600 V	10 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)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14DUD12FA

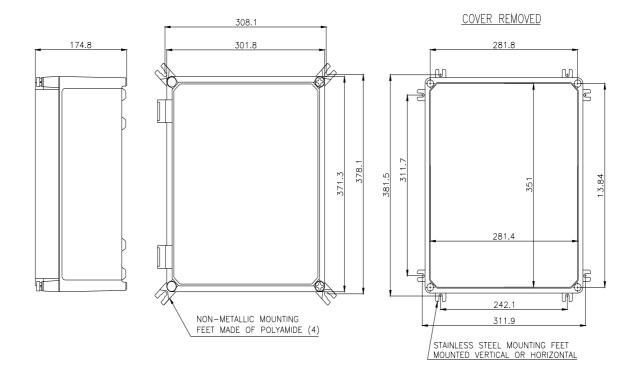
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

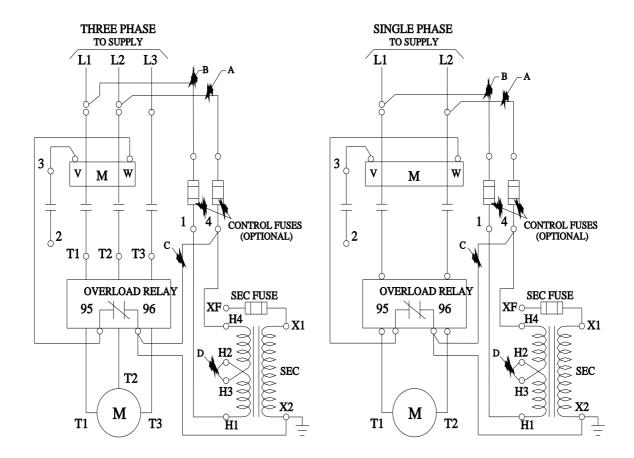
https://support.industry.siemens.com/cs/US/en/ps/US2:14DUD12FA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14DUD12FA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUD12FA/certificate





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