## **SIEMENS**

Data sheet US2:22BUB32AC



Figure similar

Reversing motor starter, Size 00, Three phase full voltage, Solid-state overload relay, OLRelay amp range 0.75-3.4a, 220 240/440 480VAC 60HZ coil, Non-combination type, Enclosure type (open), No enclosure

product brand name	Class 22
design of the product	Full-voltage reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	6 lb
Height x Width x Depth [in] 7	7.69 × 10.5 × 3.92 in
touch protection against electrical shock	Not finger-safe
installation altitude [ft] at height above sea level maximum 6	6560 ft
ambient temperature [°F]	
• during storage -	22 +149 °F
• during operation	4 +104 °F
ambient temperature	
• during storage	30 +65 °C
• during operation -	20 +40 °C
country of origin	Mexico
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0.5 hp
• at 220/230 V rated value	0.75 hp
• at 460/480 V rated value 1	1.5 hp
• at 575/600 V rated value	2 hp
Contactor	
size of contactor	NEMA controller size 00
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	500 V
operational current at AC at 600 V rated value	9 A
mechanical service life (switching cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum 8	3
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
holding power at AC minimum	3.6 W

apparent pick-up power of magnet coil at AC apparent prick-up power of magnet coil at AC apparent pricking power of magnet coil related to the input voltage ON-desity time  19 29 ms  Overfact rotay  Product function  • overload protection • overload rotest • overload protection • overload protection • overload protection • overload rotest • overload rotest • overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest of overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest  reset function  It public to the public overload rotest of overload rotest  reset function  It public to the public overload rotest of overload rotest  reset function  It public to the public overload rotest of overload rotest  reset function  It public to the public overload rotest overload rotest  reset function  It public to the public overload rotest overload rotest  It public to the public overload rotest overload rotest  reset function  It public to the pu	annount might up nouve of second at 1, 1, 4, 0	240.1/A
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of magnet coil proviotage  OF- delay time  OF- delay  OF-		
input voltage  OF-delay time  10 24 ms  OF-delay time  10 24 ms  Overload relay  product function  • overload protection • o	of magnet coil	
OPER-day lime  Overload roley  product function  • overload protection  • overload release  reset function  trip class  adjustable current response value current of the current dependent overload release  maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum  ande time with automatic start after power failure maximum period NC contacts of auxiliary contacts of overload relay  and AC at 800 V  and Categorie phase operation at AC rated value  and the surface mounting and installation  Surface mounting an		50 %
Overload roley product function	ON-delay time	19 29 ms
product function	OFF-delay time	10 24 ms
• verload protection     • plase faiture detection     • asymmetry detection     • ground fault detection     • set function     • each set filter detection     • each set filter detection     • each set function     • each function     • determined freset     control on this place is a subject of the current dependent overfload release make time with automatic start after power failure maximum     relative repeat accuracy     repeat accuracy     relative re	Overload relay	
Pintase failure detection     Seymmetry detection     Pos Symmetry Symmetry     Pos Symmetry Symmetry     Pos Symmetry	product function	
* asymmetry detection     * ground fault detection     * est function     * external reset     * external res	<ul> <li>overload protection</li> </ul>	Yes
	<ul> <li>phase failure detection</li> </ul>	Yes
• test function  reset function  fip class  adjustable current response value current of the current- dependent overload release  make time with automatic start after power failure maximum relative repeat accuracy reduct feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V • at DC at 250 V • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value eyeing of the housing  Mounting witing  design of the housing  Mounting witing  for onnectable conductor for supply voltage line-side tightening torque [bt-in] for supply type of celectrical connection for supply maximum permissible material of the conductor for load-side outgoing feeder subject of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection for load-side outgoing feeder maximum permissible upper of electrical connection of magnet coil Upper of electrical connection of magnet coil Upper of neceptable conductor for load-side outgoing feeder maximum permissible upper of the conductor for load-side outgoing feeder maximum permissible upper of the conductor for load-side outgoing feeder maximum permissible upper of the conductor for load-side outgoing feeder maximum permissible upper of the conductor for load-side outgoing feeder maximum permis	<ul> <li>asymmetry detection</li> </ul>	Yes
reset function Manual, automatic and remote trip class class of the function CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overload release maximum assumum	<ul> <li>ground fault detection</li> </ul>	Yes
reset function thip class CLASS 5.1 07.20 (factory set) 7.30    O.75 3.4 A    Manual, automatic and remote    CLASS 5.1 07.20 (factory set) 7.30    O.75 3.4 A    A    A    A    A    A    A    A	• test function	Yes
trip class adjustable current response value current of the current-dependent overload release make time with automatic start after power failure maximum relative repeat accuracy product feature protective coating on printed-circuit board relay renormer of NC contacts of auxiliary contacts of overload relay at AC at 800 V at DC at 280 V contact rating of auxiliary contacts of overload relay with single-phase operation at AC rated value with multi-phase operation at AC rated value feeling mounting position fastening method type of electrical connection for supply voltage line-side at AC was single per multi-stranded temperature of the conductor for load-side outgoing feeder rusymum permissible material of the conductor for load-side outgoing feeder maximum permissible current activation of the conductor for load-side outgoing feeder maximum permissible current activation of the conductor for load-side outgoing feeder maximum permissible conductor or ses-sections of magnet cul at AWG cables active acti	external reset	No
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dependent overload release make time with automatic start after power failure make time with automatic start after power failure maximum  relative repeat accuracy roduct feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  contact rating of auxiliary contacts of overload relay according to U.  • 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  Enclosuro  degree of protection NEMA rating  degign of the nousing  Mounting/wring  mounting position  fastening method  type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  temperature of the conductor for supply pye of connectable conductor cross-sections at Ime-side at AWG cables single or multi- stranded  temperature of the conductor for load-side outgoing feeder rusarimum permissible  material of the conductor for load-side outgoing feeder rusarimum permissible  atterial of the conductor for load-side outgoing feeder rusarimum permissible  material of the conductor for load-side outgoing feeder rusarimum permissible  atterial connectable conductor cross-sections at Mayo cables for load-side outgoing feeder rusarimum permissible  atterial connectable conductor for load-side outgoing feeder rusarimum permissible  atterial connectable conductor for load-side outgoing feeder rusarimum permissible  temperature of the conductor for load-side outgoing feeder rusarimum permissible  atterial of the conductor for load-side outgoing feeder rusarimum permissible  atterial of the conductor for load-side outgoing feeder rusarimum permissible  atterial of the conductor for load-side outgoing feeder rusarimum permissible  atterial of the conductor for load-side outgoing feeder rusari	trip class	CLASS 5 / 10 / 20 (factory set) / 30
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number of NC contacts of auxiliary contacts of overload relay  number of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V  • at DC at 250 V  • at DC at 250 V  • with single-phase operation at AC rated value  • with multi-phase operation of a Consection of the housing  Mounting/wiring  Mounting position  • Vertical  Surface mounting and installation  \$ Surfa	relative repeat accuracy	1 %
number of NO contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V 1 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  degree of protection NEMA rating  degree of protection NEMA rating  design of the housing  Mounting/wiring  mounting position  fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of econnectable conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of electrical connection for load-side outgoing feeder type of econnectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of road-side outgoing feeder type of electrical connection of magnet coil at AWG cables single or multi-stranded temperature of the conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum  75 °C	product feature protective coating on printed-circuit board	Yes
perational current of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V  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  degree of protection NEMA rating degree of protection NEMA rating Mounting/wiring  mounting position  fastening method type of electrical connection for supply voltage line-side stiphtening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of connectable conductor 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 type of electrical connection for load-side outgoing feeder maximum permissible material of the conductor 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 temperature of the conductor 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 for load-side outgoing feeder tightening torque [lbf-in] at magnet coil  screw-type terminals tightening torque [lbf-in] at magnet coil  screw-type terminals tightening torque [lbf-in] at magnet coil  screw-type terminals type of connectable conductor at magnet coil  screw-type terminals type of connectable conductor at magnet coil  screw-type terminals type of connectable conductor at magnet coil  screw-type terminals	· · · · · · · · · · · · · · · · · · ·	1
at AC at 600 V at DC at 250 V  at DC at 250 V  5 A 1 A  5 A 6 at DC at 250 V  1 A  5 A 6 at DC at 250 V  5 A 1 A  5 A 6 at DC at 250 V  5 A 1 A  5 A 6 600VAC (B600), 1A@250VDC (R300)  5 A@600VAC (B600), 1A@250VDC (R300)  5 A 6 A 6 A 6 A 6 A 6 A C C C C C C C C C C C C C C C C C C		1
• at DC at 250 V  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  degree of protection NEMA rating  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 for supply maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at MCG cables for load-side outgoing feeder type of connectable conductor for supply active for supply type of connectable 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 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  for load-side outgoing feeder maximum per	operational current of auxiliary contacts of overload relay	
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  • with multi-phase operation at AC rated value  600 V  300 V  Enclosure  degree of protection NEMA rating  Open device (no enclosure)  Mounting/wring  mounting position  fastening method  type of electrical connection for supply voltage line-side at 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  type of electrical connectable conductor cross-sections at AWG cables for load-side outgoing feeder  type of connectable conductor for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder  type of load-side outgoing feeder 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  tightening torque [lbf-in] at magnet coil  screw-type terminals	• at AC at 600 V	5 A
according to UL insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Book v  • with multi-phase operation at AC rated value  Sundance (no enclosure)  NA  Vertical  Surface mounting and installation  Screw-type terminals  1x (14 2 AWG)  1x (14 2 AWG)  1x (14 2 AWG)  1x (14 2 AWG)  2x (14 2 AWG)  2x (14 10 AWG)	• at DC at 250 V	1 A
• with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  ■ With multi-phase operation AC rated value  ■ With multi-phase operation at AC rated value  ■ Sufface mounting and installation  ■ Surface mounting and installation  ■ Surface mounting and installation  ■ With multi-phase operation installation  ■ With multi-phase operation installation  ■ With multi-phase operations installation  ■ Wertical  ■ Surface mounting and installation  ■ Na With multi-phase operations installation  ■ Na With multi-phase operations installation  ■ Wertical  ■ Surface mounting and installation  ■ Na With multi-phase operations installation  ■ Na With multi-phase descriptions installation  ■ Na With mul		5A@600VAC (B600), 1A@250VDC (R300)
eyith multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating  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 for supply maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  temperature of the conductor for supply maximum permissible  temperature of the conductor for load-side outgoing feeder maximum permissible  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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	insulation voltage (Ui)	
degree of protection NEMA rating  design of the housing  MA  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 at AWG cables single or multi-stranded  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 electrical connection for load-side outgoing feeder type of connectable conductor for supply  AL or CU  Screw-type terminals  tightening torque [lbf-in] 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 tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables outgoing feeder tightening torque [lbf-in] for supply temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables 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 type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum  75 °C	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
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 at AWG cables single or multi-stranded  temperature 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 for supply  type of connectable conductor for supply  type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature 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 temperature of the conductor for load-side outgoing feeder T5 °C  CU  Type of electrical connection of magnet coil type of connectable conductor for load-side outgoing feeder Type of connectable conductor of magnet coil Type of connectable conductor of magnet coil Type of connectable conductor cross-sections of magnet Type of connectable conductor at magnet coil maximum Type of connectable conductor at magnet coil at AWG cables single or multi-stranded Type of the conductor at magnet coil maximum Type of connectable conductor at magnet coil maximum	Enclosure	
mounting position fastening method Surface mounting and installation  type of electrical connection for supply voltage line-side tightening torque [lbf·in] for supply type of connectable conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables 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 type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum  75 °C  2v (14 10 AWG)  2v (14 10 AWG)	degree of protection NEMA rating	Open device (no enclosure)
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 at 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  temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder function 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 type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  vertical connection for supply at line-side screw-type terminals  tightening torque [lbf-in] at magnet coil  2x (16 12 AWG)	design of the housing	NA
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 at 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 type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible  material of the 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  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	Mounting/wiring	
type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 20 20 lbf-in  type of connectable conductor cross-sections at line-side at 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 stightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  type of electrical connection for load-side outgoing feeder maximum permissible  To c  Screw-type terminals  20 24 lbf-in  22 (14 10 AWG)  23 (14 10 AWG)  24 (14 10 AWG)  25 °C  26 (14 10 AWG)  27 °C  28 (14 10 AWG)  29 °C  20 24 lbf-in  20 .	mounting position	Vertical
tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side at 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 at AWG cables for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  type of electrical connectable conductor cross-sections at AWG cables for load-side outgoing feeder  material 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 electrical connection of magnet coil  screw-type terminals  CU  Screw-type terminals  2x (14 10 AWG)	fastening method	Surface mounting and installation
type of connectable conductor cross-sections at line-side at 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 through type of connectable conductor cross-sections at AWG cables 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 type of electrical connection of magnet coil  type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil  type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	type of electrical connection for supply voltage line-side	Screw-type terminals
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 at AWG cables for load-side outgoing feeder single or multistranded 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 at AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum  75 °C	tightening torque [lbf·in] for supply	20 20 lbf·in
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 at 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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C		1x (14 2 AWG)
type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at 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 at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum  Screw-type terminals  CU  Screw-type terminals  5 12 lbf·in  2x (14 10 AWG)  75 °C	1 11 7	75 °C
tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at 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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multistranded  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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	type of electrical connection for load-side outgoing feeder	Screw-type terminals
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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	tightening torque [lbf·in] for load-side outgoing feeder	20 24 lbf·in
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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	cables for load-side outgoing feeder single or multi-	2x (14 10 AWG)
type of electrical connection of magnet coil  tightening torque [lbf·in] at magnet coil  type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C		75 °C
tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	material of the conductor for load-side outgoing feeder	CU
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	type of electrical connection of magnet coil	Screw-type terminals
coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  75 °C	tightening torque [lbf·in] at magnet coil	5 12 lbf·in
		2x (16 12 AWG)
	·	75 °C

material of the conductor at magnet coil	CU
type of electrical connection for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	CU
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
breaking capacity maximum short-circuit current (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,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22BUB32AC

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

https://support.industry.siemens.com/cs/US/en/ps/US2:22BUB32AC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=US2:22BUB32AC&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22BUB32AC/certificate

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