## **SIEMENS**

Data sheet US2:22HUG32AJ



Reversing motor starter Size 3 Three phase full voltage Solid-state overload relay OLRelay amp range 25-100A 24VAC 50-60HZ coil Non-combination type Enclosure type (open)

Figure similar

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]	14 lb
Height x Width x Depth [in]	11.44 × 12.75 × 5.65 in
touch protection against electrical shock	Not finger-safe
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
country of origin	Mexico
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	25 hp
<ul><li>at 220/230 V rated value</li></ul>	30 hp
• at 460/480 V rated value	50 hp
<ul><li>at 575/600 V rated value</li></ul>	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (operating cycles) of the main contacts typical	5000000
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	7
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	
<ul> <li>at AC at 50 Hz rated value</li> </ul>	24 V
at AC at 60 Hz rated value	24 V
holding power at AC minimum	14 W

apparent holding power of magnet coll at AC power plant or supply voltage rated value of transpret coll proposed proposed plant parts described to the input voltage of magnet coll related to the input voltage in voltage input voltage in the input voltage in voltage in voltage in voltag		040.1/4
Second Processing range factor control supply voltage rated value of magnet coil or magnet coil related to the input voltage of magnet coil related to the input voltage (IV)   Second Processing of the processing	apparent pick-up power of magnet coil at AC	310 VA
magnet coil precental drop out voltage of magnet coil related to the input voltage  OFF- delay time  OFF- de		
voltage OFF-delay time OFF-delay tim		0.85 1.1
Overload rollay  Product function  • overload protection  • oyarmolity detection  • oyarmolity detection  • test function  • overload protection  • test function  • test function  • test function  • overload protection  Manual, automatic and remote  CLASS 57 107 20 (disclory set) / 30  25 100 A  CLASS 57 107 20 (disclory set) / 30  25 100 A  CLASS 57 107 20 (disclory set) / 30  25 100 A  Residuated accuracy  andate time with automatic start after power failure maximum  relative repeat accuracy  number of NC contacts of auxiliary contacts of overload relay  • all AC at 800 V  • all DC at 1250 V  • all DC at 1250 V  • with multi-phase operation at AC rated value  • with multi-phase operation at AC ra		50 %
Overload rolay  product function  • hashas failure detection • hashas failure detection • phase failure detection • phase failure detection • pound fault detection • ground fault detection • ground fault detection • east function • catedarial reset • catedarial reset  reset function • catedarial reset  the data detection •	ON-delay time	26 41 ms
product function  • overload protection • phase failure detection • phase failure detection • sysymmetry detection • ground fault detection • est function  free function	OFF-delay time	14 19 ms
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Pinasa failure detection     Pes     Poround fact detection     Pes     Poround fact detection     Pes     Pes thurction     Pes thur	product function	
* saymmetry detection     * pround fault detection     * yes     * leaf function     * external reset     * No     * CASS 5 / 10 / 20 (factory set) / 30     * adjustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * dijustable current response value current of the current     * verificative repeat according on printed-circuit board     * 15 / verificative repeat during contacts of overload relay     * product feature protective coaling on printed-circuit board     * verificative repeat during vortacts of overload relay     * out to Cast 50 / verification of auxiliary contacts of overload relay     * out to Cast 50 / verification of auxiliary contacts of overload relay     * vith to Cast 250 / verification of auxiliary contacts of overload relay     * vith multi-phase operation at AC rated value     * vith multi-phase operation at	<ul> <li>overload protection</li> </ul>	Yes
• ground fault detection • lest function  Manual, automatic and remote  Monutal, automatic and remote  Sch 100 A  depondent overload release  make time with automatic start after power failure maximum  relative repeat accuracy  1 %  Product feature predetive conting on printed-circuit board  relative repeat accuracy  1 %  Preductive r	phase failure detection	Yes
* lest function     * external reset     * external response value current of the current- dependent overload release     * external reset     * extern	asymmetry detection	Yes
e external reset reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30  adjustable current response value current of the current- dependent overdoad release make time with automatic start after power failure maximum (Feliabrus repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay e of NC contacts of auxiliary contacts of overload relay e of AC at 800 V e of	ground fault detection	Yes
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relative repeat accuracy product feature protective coating on printed-circuit board product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay 1 at AC at 600 V 1 at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 1 insulation voltage (UI) 1 with single-phase operation at AC rated value 2 with multi-phase operation at AC rated value 3 with single-phase operation at AC rated value 3 with multi-phase operation at AC rated value 4 with multi-phase operation at AC rated value 4 with multi-phase operation at AC rated value 5 with multi-phase operation at AC rated value 5 with single-phase operation at AC rated value 5 wi	•	25 100 A
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product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A at C at 500 V 5 A at C at 500 V 5 A at C at 250 V 1 A Contact rating of auxiliary contacts of overload relay according to 1 Li.  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 9 NA Mounting/liviring National Nationa	relative repeat accuracy	1 %
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at AC at 800 V at DC at 250 V 1 A  at DC at 250 V 5 A at DC at 250 V 5 A at DC at 250 V 5 A at DC at 250 V 5 A at DC at 250 V 5 A at DC at 250 V 5 A at DC at 250 V 5 A at DC at 250 V 5 A according to UI.  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 6 00 V 6 with multi-phase operation at AC rated value 6 00 V 6 with multi-phase operation at AC rated value 7 Open device (no enclosure)	number of NO contacts of auxiliary contacts of overload relay	1
ontact rating of auxiliary contacts of overload relay according to UI.  insulation voltage (UI)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • water multi-phase operation at AC rated value  • water multi-phase operation at AC rated value  • verifical surface multi	operational current of auxiliary contacts of overload relay	
contact rating of auxiliary contacts of overload relay according to UL  with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value on the housing  design of the housing  MA  Mounting/wiring  Tenciosure  degree of protection NEMA rating design of the housing  MA  Mounting/wiring  Tenuring position fastening method Surface mounting and installation sype of electrical connection for supply voltage line-side tightening torque (libf-in) for supply AL or CU type of electrical connection for supply maximum permissible material of the conductor cross-sections at line-side at tightening torque (libf-in) for load-side outgoing feeder tightening torque (libf-in) for load-side outgoing feeder tightening torque (libf-in) for load-side outgoing feeder tughtening torque (libf-in) for load-side outgoing feeder tughtening torque (libf-in) for load-side outgoing feeder sakine upperature of the conductor for load-side outgoing feeder tughtening torque (libf-in) for load-side outgoing feeder sakine upperature of the conductor for load-side outgoing feeder type of electrical connection of magnet coil stype of connectable conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil stype of connectable conductor or one-sections of magnet coil at 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 stype of connectable conductor or at magnet coil at AWG cables for load-side outgoing feeder stype of connectable conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible stype 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 stype of connectable conductor at magnet coil maximum permiss	• at AC at 600 V	5 A
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• with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  Soon V  Enclosure  User 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 [librin] 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 load-side outgoing feeder  stightening torque [librin] at magnet coil  type of electrical connectable conductor for load-side outgoing feeder  AL or CU  type of electrical connection for load-side outgoing feeder  material of the conductor for load-side outgoing feeder  AL or CU  type of electrical connection of magnet coil  stightening torque [librin] at magnet coil  type of connectable conductor for load-side outgoing feeder  material of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or magnet coil at AWG cables single or multi-stranded  temperature of the conductor or multi-stranded  temperature of the conductor or multi-stranded  temperature of the conductor		5A@600VAC (B600), 1A@250VDC (R300)
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degree of protection NEMA rating  design of the housing  NA  Mounting/wiring  mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in 1x (14 2/0 AWG)  AWG cables single or multi-stranded  temperature of the conductor cross-sections at line-side at AWG cables is nighed in the supply maximum permissible Ts °C material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder Box lug tightening torque [lbf-in] for load-side outgoing feeder Box lug tightening torque [lbf-in] for load-side outgoing feeder 120 120 lbf-in 1x (14 2/0 AWG)  AWG cables for load-side outgoing feeder 120 120 lbf-in 1x (14 2/0 AWG)  AWG cables for load-side outgoing feeder 1x (14 2/0 AWG)  AL or CU Type of electrical connection for load-side outgoing feeder 1x (14 2/0 AWG)  AL or CU Type of electrical connection of magnet coil 1x (14 2/0 AWG)  Screw-type terminals  tightening torque [lbf-in] at magnet coil 1x (14 2/0 AWG)  Screw-type terminals  tightening torque [lbf-in] at magnet coil 1x (14 2/0 AWG)  Cu 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 at AWG cables single or multi-stranded  temperature of the conductor at magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil at Screw-type terminals  tightening torque [lbf-in] at conductor or at magnet coil at Screw-type terminals  tightening torque [lbf-in] at conductor for auxiliary contacts  Screw-type terminals  tightening torque [lbf-in] at conductor for auxiliary contacts  Screw-type terminals  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	with multi-phase operation at AC rated value	300 V
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mounting position  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  Box lug  tightening torque [lbf-in] for supply  120 120 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  AL or CU  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections at 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  Screw-type terminals  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 cut  type of connectable conductor at magnet coil cut  type of connectable conductor at magnet coil cut  type of electrical connection for auxiliary contacts  Screw-type terminals  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 at AWG cables for auxiliary contacts single or multi-stranded  Tx (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	design of the housing	NA
mounting position  Vertical  fastening method  Surface mounting and installation  type of electrical connection for supply voltage line-side  Box lug  tightening torque [lbf-in] for supply  120 120 lbf-in  type of connectable conductor cross-sections at line-side at AlVG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for supply  AL or CU  type of electrical connection for load-side outgoing feeder  type of connectable conductor cross-sections at 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  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  Screw-type terminals  tightening torque [lbf-in] at magnet coil  To C  XX (16 12 AWG)	Mounting/wiring	
type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 120 120 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 tightening torque [lbf-in] for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for 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 material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil sightening 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 to magnet coil at AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible 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 connectable conductor at magnet coil type of connectable conductor at magnet coil type of connectable conductor of consections of at contactor at type of connectable conductor or auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor at type of connectable conduct		Vertical
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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 AL or CU type of electrical connection for load-side outgoing feeder tightening torque [libf-in] 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 type of electrical connecton of magnet coil type of connectable conductor rorss-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible  To °C  AL or CU  Screw-type terminals  1x (14 2/0 AWG)  AL or CU  1x (14 2/0 AWG)  1x (1	fastening method	Surface mounting and installation
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 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 at AWG cables for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder May of the conductor for 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 at AWG cables single or multi-stranded  at a 2x (16 12 AWG)  To c  CU 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 at AWG cables for auxiliary contacts single or multi-stranded  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)		Ţ
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 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 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 permissible  75 °C  AL or CU  Screw-type terminals  tightening torque [lbf-in] at magnet coil at 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 tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded  1 x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	type of electrical connection for supply voltage line-side	Box lug
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 stightening torque [lbf-in] at magnet coil stemperature of the 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 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 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)	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	Box lug 120 120 lbf·in
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 cross-sections of magnet coil at AWG cables single or multi-stranded  To °C  Screw-type terminals  Screw-type terminals  2x (16 12 AWG)  To °C  CU  type of electrical connectable 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 type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded  To 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug 120 120 lbf·in 1x (14 2/0 AWG)
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 at 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  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded  120 12 lbf-in  1x (14 2/0 AWG)  1x (14 2/0 AWG)  2x (10 12 lbf-in  2x (16 12 AWG)  2x (16 12 AWG)  2x (16 12 AWG)  3x (16 12 AWG)  4x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C
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 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  type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded  1x (14 2/0 AWG)  75 °C  Screw-type terminals  2x (16 12 AWG)  CU  type of electrical connection for auxiliary contacts  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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	Box lug 120 120 lbf·in 1x (14 2/0 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  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 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 at AWG cables for auxiliary contacts single or multi-stranded  75 °C  CU  type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded  75 °C  LU  Type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	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	Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug
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 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 at AWG cables for auxiliary contacts single or multi-stranded  AL or CU  Screw-type terminals  2x (16 12 AWG)  75 °C  CU  type of electrical connection for auxiliary contacts  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 type of connectable conductor cross-sections at AWG cables for	Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 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 at 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 at AWG cables for auxiliary contacts single or multi-stranded  Screw-type terminals  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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	Box lug 120 120 lbf·in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf·in 1x (14 2/0 AWG)
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 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 at AWG cables for auxiliary contacts single or multi-stranded  5 12 lbf-in  2x (16 12 AWG)  CU  CU  type of electrical connection for auxiliary contacts  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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	Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C
type of connectable conductor cross-sections of magnet coil at 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 at AWG cables for auxiliary contacts single or multi-stranded  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 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 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	Box lug 120 120 lbf-in 1x (14 2/0 AWG) 75 °C AL or CU Box lug 120 120 lbf-in 1x (14 2/0 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 at AWG cables for auxiliary contacts single or multi-stranded  75 °C  CU  Screw-type terminals  10 15 lbf·in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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	Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  AL or CU  Screw-type terminals
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 at AWG cables for auxiliary contacts single or multi-stranded  CU  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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	Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf·in  1x (14 2/0 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 at AWG cables for auxiliary contacts single or multi-stranded  Screw-type terminals  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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	Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf·in  1x (14 2/0 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 at AWG cables for auxiliary contacts single or multi-stranded  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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 permissible	Box lug  120 120 lbf·in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf·in  1x (14 2/0 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 at AWG cables for auxiliary contacts single or multi-stranded  1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	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 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 permissible material of the conductor at magnet coil maximum permissible	Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C  CU
	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 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 permissible material of the conductor at magnet coil	Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Screw-type terminals  5 12 lbf-in  2x (16 12 AWG)  75 °C  CU  Screw-type terminals
temperature of the conductor at contactor for auxiliary contacts 75 °C	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 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 permissible material of the conductor at magnet coil maximum permissible type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor at	Box lug  120 120 lbf-in  1x (14 2/0 AWG)  75 °C  AL or CU  Box lug  120 120 lbf-in  1x (14 2/0 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

maximum permissible	
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	none
design of the short-circuit trip	none
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	0 kA
• at 480 V	0 kA
● at 600 V	0 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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

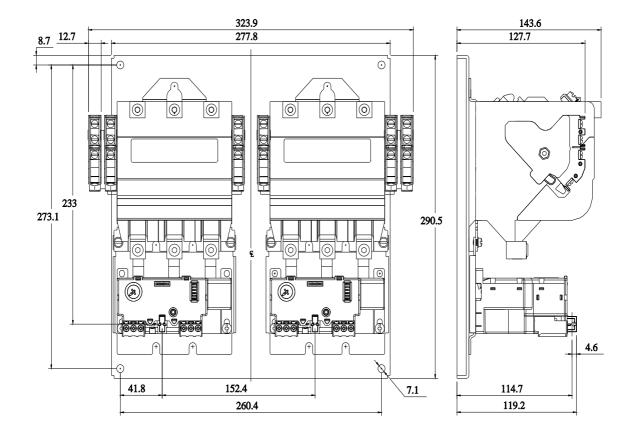
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22HUG32AJ

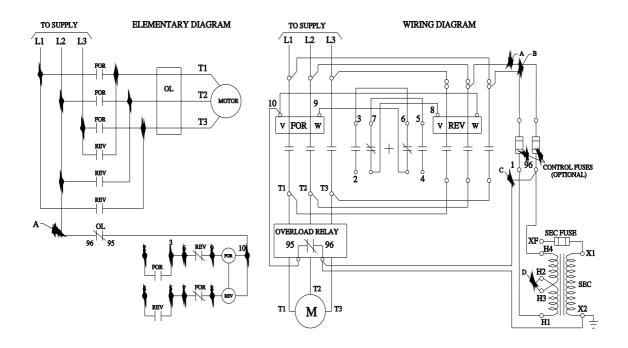
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:22HUG32A

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22HUG32AJ&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22HUG32AJ&lang=en</a>

Certificates/approvals
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