SIEMENS

US2:22CUB32AA **Data sheet**



Figure similar

Reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 0.75-3.4A 110-120/220-240VAC 60HZ coil Non-combination type Enclosure type (open)

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]	7.69 × 10.5 × 3.92 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	0.5 hp
 at 220/230 V rated value 	0.75 hp
 at 460/480 V rated value 	1.5 hp
 at 575/600 V rated value 	2 hp
Contactor	
size of contactor	NEMA controller size 0
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	18 A
mechanical service life (operating cycles) of the main	10000000
contacts typical	
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 25 VA apparent holding power of magnet coil at AC operating range factor control supply voltage rated value 0.85 ... 1.1 of magnet coil percental drop-out voltage of magnet coil related to the 50 % input voltage ON-delay time 19 ... 29 ms OFF-delay time 10 ... 24 ms Overload relay

product function

 overload protection • phase failure detection asymmetry detection Yes • ground fault detection • test function

 external reset reset function

trip class adjustable current response value current of the currentdependent overload release

make time with automatic start after power failure maximum

relative repeat accuracy

product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload

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

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

Yes

Yes

Yes

Yes

Manual, automatic and remote CLASS 5 / 10 / 20 (factory set) / 30

0.75 ... 3.4 A

3 s

1 % Yes

1

5 A 1 A

5A@600VAC (B600), 1A@250VDC (R300)

600 V 300 V

degree of protection NEMA rating design of the housing

Open device (no enclosure)

NA

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 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 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 Vertical

Surface mounting and installation

Screw-type terminals 20 ... 20 lbf·in 1x (14 ... 2 AWG)

75 °C

AL or CU

Screw-type terminals 20 ... 24 lbf·in 2x (14 ... 10 AWG)

75 °C

CH

Screw-type terminals 5 ... 12 lbf·in

2x (16 ... 12 AWG)

75 °C

CU

Screw-type terminals

10 ... 15 lbf·in

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

Short-circuit current rating

design of the fuse link for short-circuit protection of the main circuit required

design of the short-circuit trip

maximum short-circuit current breaking capacity (Icu)

• at 240 V

• at 480 V

• at 600 V

certificate of suitability

10kA@600V (Class H or K); 100kA@600V (Class R or J)

Thermal magnetic circuit breaker

14 kA

10 kA

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=US2:22CUB32AA

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

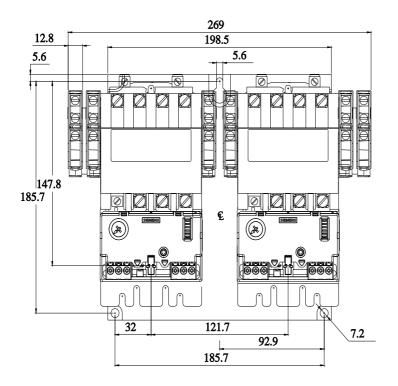
https://support.industry.siemens.com/cs/US/en/ps/US2:22CUB32AA

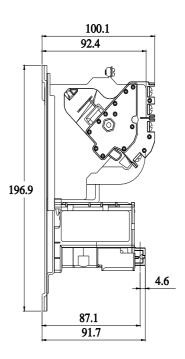
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

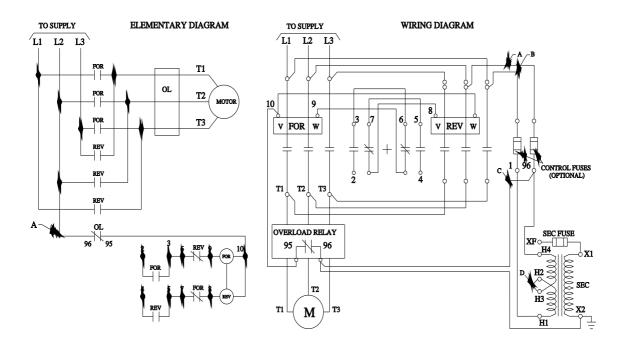
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22CUB32AA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUB32AA/certificate







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