SIEMENS

Data sheet US2:22CUA32AD



Reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 0.25-1A 208VAC 60HZ coil Noncombination 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]	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	0.17 hp
• at 220/230 V rated value	0.17 hp
 at 460/480 V rated value 	0.33 hp
at 575/600 V rated value	0.5 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 (switching cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
holding power at AC minimum	8.6 W

apparent placking power of magnet coil at AC 28 VA 28 VA 29	annount piels up pourse of second to 11 1 A C	240.1/A
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Overload roley product function • hase failure detection • phase failure detection • phase failure detection • pround fault detection • ground fault detection • pround fault detection • external reset No react function Trip class CLASS 5 / 10 / 20 (factory set) / 30 225 1 A 25 1 A 26 1 A 27 1 A 28 1 A 29 1 A 20 2 B 20	ON-delay time	19 29 ms
product function	OFF-delay time	10 24 ms
• verload protection • plase failure detection • asymmetry detection • ground fault detection • serimetry detection • esternal reset • poround fault detection • esternal reset • poround fault detection • esternal reset • esternal reset • pround fault detection • external reset • poround fault detection • poround fault	Overload relay	
Phase failure detection Pas symmetry de	product function	
* asymmetry detection * ground fault detection * etert function * etert function * external reset * No * Available current response value current of the current-dependent overfload release make time with automatic start after power failure naximum * relative repeat accuracy relative rep	 overload protection 	Yes
	 phase failure detection 	Yes
• kets function • kets main reset reset function Manual, automatic and remote trip class daijustable current response value current of the current-dependent overload release make time with automatic start after power failure maximum relative repeat accuracy reduct respect accuracy reduct resture protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay relative repeat accuracy report of NC contacts of auxiliary contacts of overload relay relative roll of auxiliary contacts of overload relay **at AC at 600 V **at C at 250 V **at C at 250 V **at C at 250 V **with multi-phase operation at AC rated value **with multi-phase operation of AC rated value **with multi-phase	 asymmetry detection 	Yes
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reset function trip class CLASS 57 107/20 (factory set) 7 30 Adjustable current response value current of the current-dependent overload release maximum relative repeat accuracy	• 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 routher of NC contacts of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V contact rating of auxiliary contacts of overload relay with single-phase operation at AC rated value with multi-phase operation of the conductor for supply voltage line-side dightering torque [lbf-in] for supply pye of connectable conductor for supply material of the conductor for supply pye of connectable conductor for load-side outgoing feeder rusymum permissible meterial connection of magnet coil type of electrical connection for load-side outgoing feeder maximum permissible meterial for econductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible coil at AWC cables single or multi-stranded temperature of the conductor at magnet coil type of electrical connection of magnet coil type of electrical connection at magnet coil maximum	external reset	No
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operational current of auxiliary contacts of overload relay	•	1
■ 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 ■ Surface mounting and installation ■ Vertical ■ Surface mounting and installation ■ Vertical ■ Surface mounting and installation ■ Vertical ■ Xurface mounting and installation ■ Yerical ■ Xurface mounting and installation ■ Yerical ■ Xurface mounting and installation ■ Yerical ■ Xurface mounting and installation ▼ xurface mounting and installatio		1
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with multi-phase operation at AC rated value with multi-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating design of the housing Mounting/wiring mounting position		5A@600VAC (B600), 1A@250VDC (R300)
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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 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 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 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 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	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 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 at magnet coil maximum Screw-type terminals 5 12 lbf·in 2x (14 10 AWG) 2x (14 10 AWG) 2x (14 10 AWG) 75 °C 2x (14 10 AWG)	1 11 2	75 °C
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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 5 12 lbf-in 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=US2:22CUA32AD

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

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUA32AD

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=US2:22CUA32AD&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUA32AD/certificate

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