SIEMENS

Data sheet US2:22CUD32AE



Reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 550/575-600 50/60HZ 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 	3 hp
 at 220/230 V rated value 	3 hp
 at 460/480 V rated value 	0 hp
• at 575/600 V rated value	0 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
control supply voltage	

* al AC at 60 Hz rated value * 575 600 V * holding power of AC minimum * 8.6 W * apparent holding power of magnet coil at AC * 28 VA * apparent holding power of magnet coil at AC * 28 VA * apparent holding power of magnet coil at AC * 28 VA * apparent holding power of magnet coil at AC * 28 VA * apparent holding power of magnet coil at AC * 28 VA * apparent holding power of magnet coil related value of magnet coil * 50 % * No.4 Hall the second protection * 19 29 ms * OFF-dely time * OFF-dely time * OFF-dely time * Overload relay * product function * * test function * * test function * * praise fallure delection * * saymmetry detection * * saymmetry detection * * test function * * * test function * * * * * * * * * * * * * * * * * * *		
Apparent pick-up power of magnet coil at AC 218 VA 25 VA	at AC at 50 Hz rated value	550 V
apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value operating range factor control supply voltage of the properties		
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Overfood protection Overfo		50 %
Overload relay product function • overload protection • phase failure detection • phase failure detection • ground fault detection • ground fault detection • lest function • external reset • No • external reset • No 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 • at AC at 800 V • at DC at 250 V • at Ca 250 V • at Ca 250 V • with single-phase operation at AC rated value • with multi-phase operat	ON-delay time	19 29 ms
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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 Screw-type terminals 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals	•	AL or CU
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type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil 5 12 lbf-in	,	75 °C
tightening torque [lbf·in] at magnet coil 5 12 lbf·in	material of the conductor for load-side outgoing feeder	AL or CU
	type of electrical connection of magnet coil	Screw-type terminals
type of connectable conductor cross-sections of magnet 2x (16 12 AWG)	tightening torque [lbf·in] at magnet coil	5 12 lbf·in
	type of connectable conductor cross-sections of magnet	2x (16 12 AWG)

coil at AWG cables single or multi-stranded	
temperature of the conductor at magnet coil maximum permissible	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=US2:22CUD32AE

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32AE

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22CUD32AE&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32AE/certificate

11/29/2021 last modified: