SIEMENS

Data sheet US2:22CUD32AD



Reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 208VAC 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 (operating 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	
at AC at 60 Hz rated value	208 V
holding power at AC minimum	8.6 W
apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 VA

magnet coil percental drop-out voltage of magnet coil related to the input voltage 50 %	
ON-delay time 19 29 ms	
OFF-delay time 10 24 ms	
Overload relay	
product function	
• overload protection Yes	
phase failure detection Yes	
• asymmetry detection Yes	
• ground fault detection Yes	
• test function Yes	
external reset No	
reset function Manual, automatic and remote	
trip class CLASS 5 / 10 / 20 (factory set) / 30	
adjustable current response value current of the current- dependent overload release 5.5 22 A	
make time with automatic start after power failure maximum 3 s	
relative repeat accuracy 1 %	
product feature protective coating on printed-circuit board Yes	
number of NC contacts of auxiliary contacts of overload relay 1	
number of NO contacts of auxiliary contacts of overload relay	
operational current of auxiliary contacts of overload relay	
• at AC at 600 V 5 A	
• at DC at 250 V 1 A 5 A 2000 VA C (D000) 4 A 2050 VDC (D000)	
contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300)	
insulation voltage (Ui)	
with single-phase operation at AC rated value 600 V	
 with single-phase operation at AC rated value with multi-phase operation at AC rated value 300 V 	
 with single-phase operation at AC rated value with multi-phase operation at AC rated value Enclosure 	
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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 for 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)
•	10kA@600V (Class H or K); 100kA@600V (Class R or J) Thermal magnetic circuit breaker
circuit required	-
circuit required design of the short-circuit trip	-
circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)	Thermal magnetic circuit breaker
circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V	Thermal magnetic circuit breaker 14 kA
circuit required design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V	Thermal magnetic circuit breaker 14 kA 10 kA

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22CUD32ADatabase.pdf$

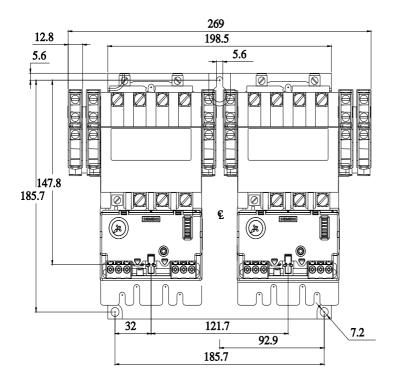
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32AD

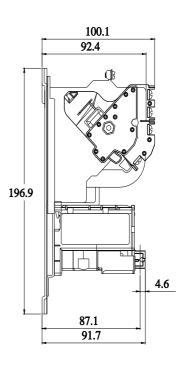
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

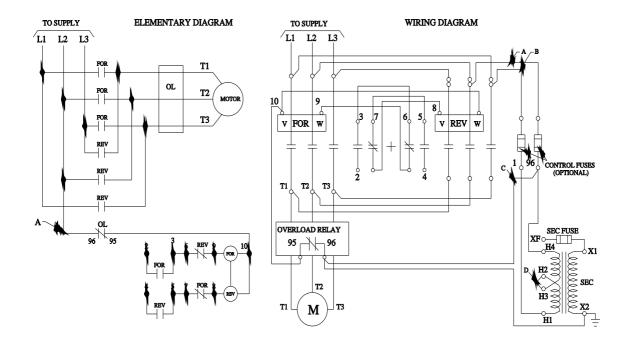
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22CUD32AD&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUD32AD/certificate







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