SIEMENS

Data sheet

US2:22CUC32AA



Reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 3-12A 110-120/220-240VAC 60HZ coil Non-combination type Enclosure type (open)

product brand name Class 22 design of the product feature ESP200 overload relay General technical data ESP200 overload relay General technical data 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 [IF] 600 ft • during storage -22 +149 "F • during operation -4 +104 "F ambient temperature -30 +65 °C • during operation -20 +40 °C country of origin Mexico Horsepower ratings -30 +65 °C vielded mechanical performance [hp] for 3-phase AC motor -20 +40 °C motor - at 200/208 V rated value 2 hp • at 200/208 V rated value 2 hp - • at 200/208 V rated value 5 hp - • at 200/208 V rated value 5 hp - • at 575/600 V rated value 5 hp - size of contactor 0 - rummer of NO contacts for main contacts 3 000 V <t< th=""><th>riguresmina</th><th></th></t<>	riguresmina	
special product feature ESP200 overload relay General technical data 6 lb weight [b] 6 lb Height X Width x Depth [in] 7.69 × 10.5 × 3.92 in touch protection against electrical shock Not finger-safe installation altiude [ft] at height above sea level maximum ambient temperature ['F] • during storage -22 +149 "F • during operation -4 +104 "F ambient temperature -30 +65 °C • during operation -20 +40 °C country of origin Mexico Horsepower ratings -20 +40 °C yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 2 hp • at 200/208 V rated value 5 hp • at 460/480 V rated value 5 hp • at 575/600 V rated value 5 hp contactor NEMA controller size 0 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V meximum 000000000000000000000000000000000000	product brand name	Class 22
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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 6660 ft ambient temperature ['F] - 4+104 °F • during storage -30 +65 °C • during operation -20+40 °C country of origin Mexico Horspower ratings yielded mechanical performance [hp] for 3-phase AC width 20/200 V rated value 2 hp • at 200/200 V rated value 5 hp • at 220/200 V rated value 5 hp • at 220/200 V rated value 5 hp • at 250/200 V rated value 5 hp • at 575/600 V rated value 5 hp • at 575/600 V rated value 1 • operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V operating voltage for main current circuit at AC at 60 Hz 600 V maximum 1 1 operat	special product feature	ESP200 overload relay
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	installation altitude [ft] at height above sea level maximum	6560 ft
• during operation -4 +104 °F ambient temperature -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 2 hp • at 220/230 V rated value 2 hp • at 460/480 V rated value 5 hp • at 575/600 V rated value 5 hp • at 575/600 V rated value 3 operating voltage for main contacts 3 operating voltage for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum 600 V operating voltage for service life (switching cycles) of the main contacts typical 10000000 Auxiliary contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 <td>ambient temperature [°F]</td> <td></td>	ambient temperature [°F]	
ambient temperature -30 +65 °C • during operation -20 +40 °C country of origin Mexico Horsepower ratings yielded mechanical performance [hp] for 3-phase AC wielde mechanical performance [hp] for 3-phase AC Mexico • at 200/208 V rated value 2 hp • at 220/230 V rated value 2 hp • at 460/480 V rated value 5 hp • at 575/600 V rated value 5 hp Contactor NEMA controller size 0 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 10000000 operational current at AC at 600 V rated value 18 A mechanical service life (switching cycles) of the main contacts typical 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1	 during storage 	-22 +149 °F
• during storage -30 +65 °C • during operation -20 +40 °C country of origin Mexico Horsepower ratings	 during operation 	-4 +104 °F
• during operation -20 +40 °C country of origin Mexico Horsepower ratings	ambient temperature	
country of origin Mexico Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 2 hp • at 200/208 V rated value 2 hp at 4220/230 V rated value 2 hp • at 420/208 V rated value 2 hp at 460/480 V rated value 5 hp • at 575/600 V rated value 5 hp 5 hp Contactor NEMA controller size 0 number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz 600 V maximum 0perational current at AC at 600 V rated value 18 A operational current at AC at 600 V rated value 10000000 Auxiliary contact 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts of contacts of contactor according to UL 8 contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) coli type of voltage of the control supply voltage AC <td> during storage </td> <td>-30 +65 °C</td>	 during storage 	-30 +65 °C
Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 2 hp • at 220/230 V rated value 2 hp • at 220/230 V rated value 2 hp • at 460/480 V rated value 5 hp • at 575/600 V rated value 5 hp 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 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts of contactor according to UL 8 contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) coli type of voltage of the control supply voltage AC	 during operation 	-20 +40 °C
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• at 575/600 V rated value 5 hp Contactor size of contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V 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 0 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts of contactor according to UL 8 Contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) Coil AC	• at 220/230 V rated value	2 hp
Contactor NEMA controller size 0 number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz 600 V 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 0 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of total auxiliary contacts of contactor according to UL 10A@600VAC (A600), 5A@600VDC (P600) Coil to UL 4AC	• at 460/480 V rated value	5 hp
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maximum Imaximum operational current at AC at 600 V rated value 18 A mechanical service life (switching cycles) of the main contacts typical 10000000 Auxiliary contact 10000000 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 1 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 Imaximum type of voltage of the control supply voltage AC	number of NO contacts for main contacts	3
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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 4C	operational current at AC at 600 V rated value	18 A
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 4 type of voltage of the control supply voltage AC		1000000
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	Auxiliary contact	
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	number of NC contacts at contactor for auxiliary contacts	0
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	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage AC	number of total auxiliary contacts maximum	8
type of voltage of the control supply voltage AC	, , , , , , , , , , , , , , , , , , ,	10A@600VAC (A600), 5A@600VDC (P600)
<u></u>	Coil	
control supply voltage	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
apparent holding power of magnet coil at AC	25 VA
operating range factor control supply voltage rated value of magnet coil	0.85 1.1
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	3 12 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	1
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	1 A
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 multi-phase operation at AC rated value 	300 V
Enclosure	
degree of protection NEMA rating	Open device (no enclosure)
design of the housing	NA
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf·in] for supply	20 20 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 2 AWG)
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	AL or CU
type of electrical connection for load-side outgoing feeder	Screw-type terminals
tightening torque [lbf·in] for load-side outgoing feeder	20 20 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material 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	5 12 lbf·in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 AWG)

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, Brochu www.usa.siemens.com/iccatalog Industry Mall (Online ordering system)	

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:22CUC32AA

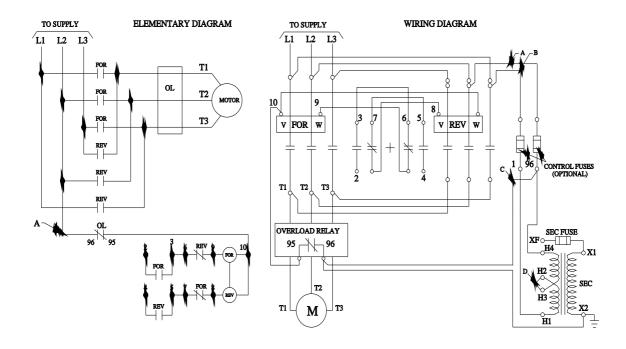
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUC32AA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:22CUC32AA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22CUC32AA/certificate



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