SIEMENS

Data sheet US2:14CUD820E



Non-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 12, Dust/drip proof for indoors, Extra-wide enclosure

product brand name	Class 14		
design of the product	Full-voltage non-reversing motor starter		
special product feature	ESP200 overload relay		
General technical data			
weight [lb]	15 lb		
Height x Width x Depth [in]	13 × 13 × 5 in		
touch protection against electrical shock	(NA for enclosed products)		
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	USA		
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		
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	345VA@115VAC / 768VA@240VAC		
Coil			
type of voltage of the control supply voltage	AC		
control supply voltage			
 at AC at 50 Hz rated value 	550 V		
at AC at 60 Hz rated value	575 600 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	0.85 1.1		

magnet ceil			
magnet coil	FO 9/		
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	Yes		
reset function	Manual, automatic and remote		
trip class	CLASS 5 / 10 / 20 (factory set) / 30		
adjustable current response value current of the current-	5.5 22 A		
dependent overload release	0.0 ZZ /1		
tripping time at phase-loss 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	5A@600VAC (B600), 1A@250VDC (R300)		
UL			
insulation voltage (Ui)			
 with single-phase operation at AC rated value 	600 V		
with multi-phase operation at AC rated value	300 V		
Enclosure			
design of the housing	Extra-wide		
degree of protection NEMA rating of the enclosure	Extra-wide NEMA Type 12		
design of the housing	Extra-wide NEMA Type 12 Dust tight and drip proof for indoors		
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design of the housing			
design of the housing Mounting/wiring	Dust tight and drip proof for indoors		
design of the housing Mounting/wiring mounting position	Dust tight and drip proof for indoors Vertical		
design of the housing Mounting/wiring mounting position fastening method	Dust tight and drip proof for indoors Vertical Surface mounting and installation		
design of the housing 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 for	Vertical Surface mounting and installation Screw-type terminals		
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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	2 x (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
maximum short-circuit current breaking capacity (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
Approvals Certificates	

Test Certificates



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

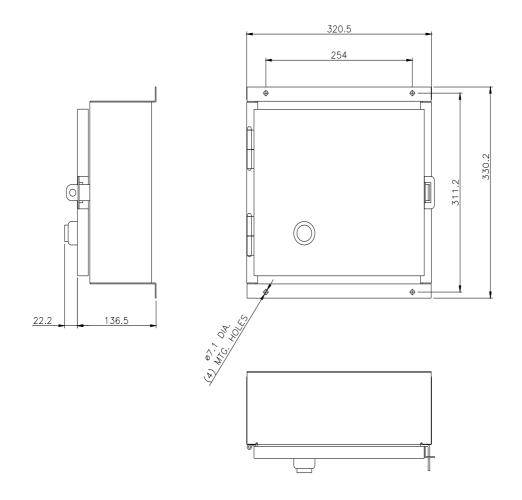
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14CUD820E

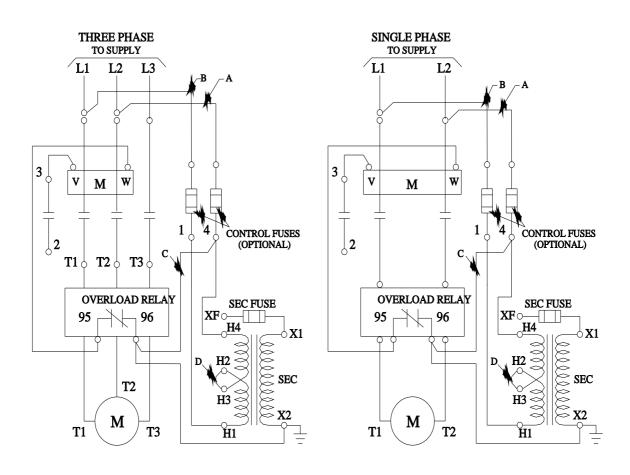
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:14CUD820E

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14CUD820E&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14CUD820E/certificate





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US2:1		D82	— 0E
Page	5/5		