SIEMENS

Data sheet

3RE4122-7CA31-4CH3



STARTER, 3RE41227CA314CY0, WITH MODS

product brand name	Siemens		
product designation	Non-reversing motor starter		
special product feature	Hand-Off-Auto Selector Switch, CPT Std Capacity 480/240:120V		
General technical data			
weight [lb]	15 lb		
Height x Width x Depth [in]	12 × 10 × 6 in		
touch protection against electrical shock	NA for enclosed products		
installation altitude [ft] at height above sea level maximum	6 560 ft		
country of origin	Germany		
Power and control electronics			
number of poles for main current circuit	3		
type of voltage of the control supply voltage	AC		
control supply voltage			
• at AC at 50 Hz rated value	110 V		
• at AC at 60 Hz rated value	120 V		
disconnector functionality	No		
yielded mechanical performance [hp] for 3-phase AC motor			
• at 200/208 V rated value	10 hp		
• at 220/230 V rated value	10 hp		
• at 460/480 V rated value	20 hp		
• at 575/600 V rated value	25 hp		
Contactor			
number of NO contacts for main contacts	3		
operating voltage for main current circuit at AC at 60 Hz maximum	600 V		
operating voltage at AC-3 rated value maximum	600 V		
mechanical service life (operating cycles) of the main contacts typical	30 000 000		
Auxiliary contact			
number of NC contacts for auxiliary contacts	1		
number of NO contacts for auxiliary contacts	1		
number of total auxiliary contacts maximum	8		
contact rating of auxiliary contacts of contactor according to UL	10A@600V(A600), 2.5A@600V(Q600)		
Coil			
apparent pick-up power of magnet coil at AC	79 VA		
apparent holding power of magnet coil at AC	8.5 VA		
operating range factor control supply voltage rated value of magnet coil	0.8 1.1		
ON-delay time	8 40 ms		
OFF-delay time	4 16 ms		
Overload relay			

product function						
 overload protection 			Yes			
 test function 			Yes			
external reset			Yes			
reset function					(with optional accessory)	
adjustment range of therm	· · · · · · · · · · · · · · · · · · ·		17	22		
number of NC contacts of	-			1		
number of NO contacts of				1		
contact rating of auxiliary o	contacts of overload rel	ay according to	5A@6	5A@600VAC (B600), 1A@250VDC (R300)		
Enclosure						
degree of protection NEM	A rating of the enclosur	e	NEM	A 3/3R/4/12 enclosure		
design of the housing				& watertight for outdoor u	ISE	
Mounting/wiring			Buot			
mounting position			vertic	al		
fastening method				ce mounting and installati	ion	
type of electrical connection	on for supply voltage lin	e-side	-	/-type terminals		
tightening torque [lbf·in] for	, .					
type of connectable condu		ine side for	18 21 lbf-in 2x (16 12), 2x (14 8)			
AWG cables single or mult			27 (10	12), 28 (14 0)		
temperature of the conduc	ctor for supply maximur	n permissible	60 °C			
material of the conductor f	for supply		CU	CU		
type of electrical connection	on for load-side outgoin	g feeder	Screw-type terminals			
tightening torque [lbf·in] for	r load-side outgoing fee	eder	18 21 lbf·in			
type of connectable condu	ctor cross-sections for	AWG cables	2x (16 12), 2x (14 8)			
for load-side outgoing feed	der single or multi-strar	ded				
temperature of the conduc maximum permissible	ctor for load-side outgoi	ng feeder	60 °C			
material of the conductor f	for load-side outgoing f	eeder	CU			
type of electrical connection	on of magnet coil		Screv	v-type terminals		
tightening torque [lbf·in] at	magnet coil		7 10 lbf·in			
type of connectable condu AWG cables single or mult		magnet coil for	2x (16 12), 2x (14 8)			
temperature of the conduc permissible	ctor at magnet coil max	imum	75 °C			
material of the conductor a	at magnet coil		CU			
type of electrical connection	on for auxiliary contacts	;	Screv	Screw-type terminals		
tightening torque [lbf·in] at	contactor for auxiliary	contacts	7 1	7 10 lbf·in		
type of connectable condu AWG cables for auxiliary c			2x (20) 16), 2x (18 14)		
temperature of the conduc maximum permissible	ctor at contactor for aux	iliary contacts	75 °C			
material of the conductor a			CU	CU		
type of electrical connection contacts	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 16), 2x (18 14)				
•	temperature of the conductor at overload relay for auxiliary contacts maximum permissible		70 °C			
material of the conductor at overload relay for auxiliary contacts			CU	CU		
Short-circuit current rating	g					
design of the fuse link for short-circuit protection of the main circuit required		Class J				
design of the short-circuit trip		Thermal magnetic circuit breaker				
maximum short-circuit current breaking capacity (Icu)						
• at 240 V 5 H			5 kA	5 kA		
• at 480 V		5 kA				
• at 600 V 5 F			5 kA	5 kA		
certificate of suitability UL 60947-4-1						
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Dangerous Good	Environment	





Confirmation

Environmental Confirmations

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=3RE4122-7CA31-4CH3

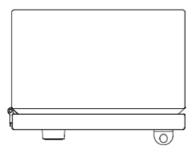
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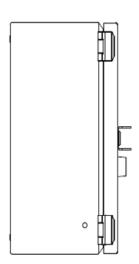
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-7CA31-4CH3/man

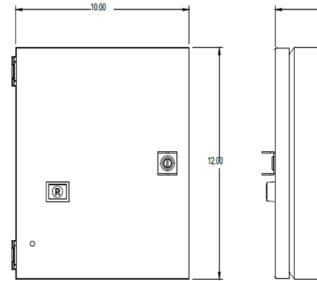
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-7CA31-4CH3&lang=en

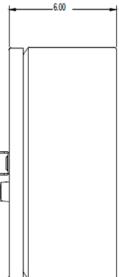
Certificates/approvals

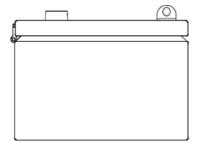
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last modified:

4/15/2021 🖸