SIEMENS

Data sheet

3RE4122-8CA31-1JY0



STARTER, FVNR, S0, 3PH, THOLR, 120V, N3R/4/12

product brand name	Siemens	
product designation	Non-reversing motor starter	
special product feature	No factory installed accessories	
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	25 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	10 000 000	
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		

at 600 V certificate of suitability Approvals Certificates General Product Ap-			UL 60	947-4-1	
			UL 60	947-4-1	
• at 600 V					
			5 kA		
		5 kA			
• at 240 V		5 kA			
maximum short-circuit current breaking capacity (Icu)					
design of the short-circuit trip		Thern	Thermal magnetic circuit breaker		
circuit required					
	for short-circuit protection	of the main	Class	J	
Short-circuit current rating					
material of the conductor at overload relay for auxiliary contacts		CU			
temperature of the conductor at overload relay for auxiliary contacts maximum permissible		70 °C			
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded		,	2x (20	2x (20 16), 2x (18 14)	
tightening torque [lbf-in] at overload relay for auxiliary contacts			7 10 lbf·in		
contacts					
material of the conductor at contactor for auxiliary contacts			CU Screw-type terminals		
maximum permissible					
AWG cables for auxilia	AWG cables for auxiliary contacts single or multi-stranded		75 °C	2x (20 16), 2x (18 14)	
tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor for		7 10 lbf-in 2x (20 16) 2x (18 14)			
51	ction for auxiliary contacts			Screw-type terminals	
material of the conduct	-		CU		
permissible			0.1		
	nulti-stranded ductor at magnet coil max	imum	75 °C		
type of connectable con	nductor cross-sections of	magnet coil for	7 10 lbf·in 2x (16 12), 2x (14 8)		
type of electrical conne tightening torque [lbf·in]				ν-type terminals Ω lbf.in	
	or for load-side outgoing f	eeder	CU	(type terminale	
maximum permissible	ductor for load-side outgoi				
for load-side outgoing f	eeder single or multi-strar	nded	60 °C	2x (16 12), 2x (14 8)	
	nductor cross-sections for				
	for load-side outgoing fe	0		<i>i</i> -type terminals 21 lbf-in	
material of the conduct	or for supply ction for load-side outgoin	na feeder	CU	/-type terminals	
	ductor for supply maximur	n permissible		60 °C	
AWG cables single or r	multi-stranded				
tightening torque [lbf·in]	I for supply nductor cross-sections at I	line-side for		21 lbf·in 5 12), 2x (14 8)	
	ction for supply voltage lir	1e-SIGE		Screw-type terminals	
fastening method	olion for superior 10			ce mounting and installation	
mounting position			vertica		
Mounting/wiring					
design of the housing			Dust-	& watertight for outdoor use	
degree of protection NE	EMA rating of the enclosu	re	NEM/	A 3/3R/4/12 enclosure	
Enclosure					
contact rating of auxilia	ry contacts of overload re	lay according to	5A@6	600VAC (B600), 1A@250VDC (R300)	
	of auxiliary contacts of ov		1		
	of auxiliary contacts of ov		1		
adjustment range of the	ermal overload trip unit		7 1	0	
reset function			Manu	al, automatic and remote (with optional accessory)	
 external reset 			Yes		
test function			Yes		
 overload protecti 	ion		Yes		
product function					





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=3RE4122-8CA31-1JY0

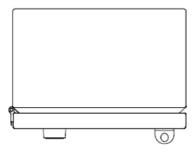
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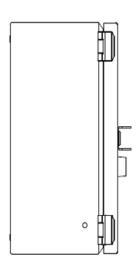
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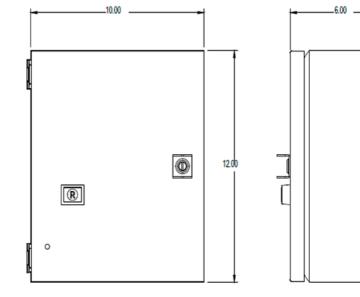
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-8CA31-1JY0&lang=en

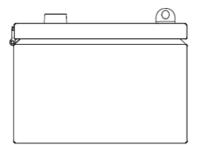
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-8CA31-1JY0/certificate









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