SIEMENS

Data sheet

3RE4122-6CA31-4CY0





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	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	7.5 hp			
• at 220/230 V rated value	7.5 hp			
• at 460/480 V rated value	15 hp			
● at 575/600 V rated value	20 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				
OFF-delay time	4 16 ms			

product function			
 overload protection 	on		Yes
 test function 			Yes
external reset			Yes
reset function			Manual, automatic and remote (with optional accessory)
adjustment range of the	rmal overload trip unit		17 22
	of auxiliary contacts of over		1
number of NO contacts	of auxiliary contacts of ov	rerload relay	1
contact rating of auxiliary contacts of overload relay according to			5A@600VAC (B600), 1A@250VDC (R300)
UL Enclosure			
	MA rating of the enclosure	۵	NEMA 3/3R/4/12 enclosure
design of the housing	INA fatting of the enclosure	<u> </u>	Dust- & watertight for outdoor use
Mounting/wiring			Dust- & waterlight for outdoor use
			vertical
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]			18 21 lbf·in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded			2x (16 12), 2x (14 8)
temperature of the cond	ductor for supply maximum	n permissible	00 °C
material of the conducto	or for supply		CU
type of electrical connec	ction for load-side outgoin	g feeder	Screw-type terminals
tightening torque [lbf·in]	for load-side outgoing fee	eder	18 21 lbf·in
	nductor cross-sections for a seder single or multi-stran		2x (16 12), 2x (14 8)
temperature of the conductor for load-side outgoing feeder maximum permissible		ng feeder	60 °C
material of the conducto	or for load-side outgoing fe	eeder	CU
type of electrical connec	ction of magnet coil		Screw-type terminals
tightening torque [lbf·in]	at magnet coil		7 10 lbf·in
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded		magnet coil for	2x (16 12), 2x (14 8)
temperature of the conductor at magnet coil maximum permissible		mum	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	7 10 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded			2x (20 16), 2x (18 14)
temperature of the conductor at contactor for auxiliary contacts maximum permissible		iliary contacts	75 °C
material of the conducto	or at contactor for auxiliary	/ contacts	CU
type of electrical connection at overload relay for auxiliary contacts		auxiliary	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxiliary contacts			7 10 lbf·in
type of connectable con	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)
	ductor at overload relay for		70 °C
material of the conductor at overload relay for auxiliary contacts		xiliary contacts	CU
Short-circuit current rating			
	design of the fuse link for short-circuit protection of the main		Class J
design of the short-circuit trip			Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)		(Icu)	
• at 240 V		· -=/	5 kA
• at 480 V			5 kA
• at 600 V			5 kA
certificate of suitability			UL 60947-4-1
Approvals Certificates			52 55541 4 1
General Product Ap-			
proval	Test Certificates	other	Environment





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=3RE4122-6CA31-4CY0

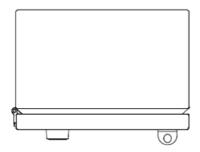
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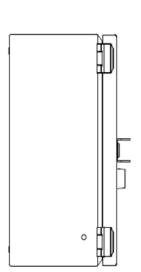
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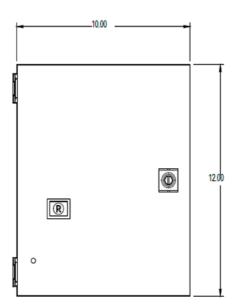
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-6CA31-4CY0&lang=en

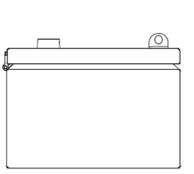
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-6CA31-4CY0/certificate









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