3RE4122-8CA31-4DY0

Data sheet





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		

product function					
 overload protection 	n		Yes		
 test function 			Yes		
external reset			Yes		
reset function			Manual,	automatic and remote (with optional accessory)	
adjustment range of the	rmal overload trip unit		20 25		
	of auxiliary contacts of over		1		
number of NO contacts	of auxiliary contacts of over	erload relay	1		
contact rating of auxiliar UL	ry contacts of overload rela	ay according to	5A@600VAC (B600), 1A@250VDC (R300)		
Enclosure			_		
	MA rating of the enclosure	9	NEMA 3	3/3R/4/12 enclosure	
design of the housing	INA Talling of the enclosure	<u> </u>		watertight for outdoor use	
Mounting/wiring			Dust- &	waterlight for outdoor use	
3 3	<u> </u>		vertical		
mounting position			vertical	and the state of t	
fastening method				mounting and installation	
	type of electrical connection for supply voltage line-side			Screw-type terminals	
tightening torque [lbf·in]				18 21 lbf·in	
AWG cables single or m	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	luctor for supply maximum	n permissible	60 °C		
material of the conducto	or for supply		CU		
type of electrical connec	ction for load-side outgoing	g feeder	Screw-t	ype terminals	
tightening torque [lbf·in]	for load-side outgoing fee	eder	18 21	lbf-in	
	ductor cross-sections for a		2x (16	12), 2x (14 8)	
temperature of the cond maximum permissible	luctor for load-side outgoir	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-ty	ype terminals	
tightening torque [lbf·in]	at magnet coil		7 10 I	bf·in	
type of connectable con AWG cables single or m	iductor cross-sections of n	nagnet coil for	2x (16	12), 2x (14 8)	
temperature of the cond permissible	luctor at magnet coil maxii	mum	75 °C		
material of the conducto	or at magnet coil		CU		
type of electrical connec	ction for auxiliary contacts		Screw-ty	ype terminals	
tightening torque [lbf·in]	at contactor for auxiliary of	contacts	7 10 I	7 10 lbf·in	
31	iductor cross-sections at c y contacts single or multi-		2x (20 16), 2x (18 14)		
temperature of the conductor at contactor for auxiliary contacts maximum permissible		75 °C			
material of the conductor at contactor for auxiliary contacts		CU	CU		
type of electrical connection at overload relay for auxiliary contacts		Screw-t	Screw-type terminals		
tightening torque [lbf·in] at overload relay for auxiliary contacts		7 10 I	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	2x (20 16), 2x (18 14)		
temperature of the conductor at overload relay for auxiliary contacts maximum permissible		70 °C	70 °C		
material of the conductor at overload relay for auxiliary contacts		CU	CU		
Short-circuit current rati					
design of the fuse link for short-circuit protection of the main circuit required		Class J	Class J		
design of the short-circuit trip		Therma	Thermal magnetic circuit breaker		
maximum short-circuit current breaking capacity (Icu)		u			
• at 240 V		5 kA	5 kA		
• at 480 V		5 kA			
• at 600 V		5 kA			
certificate of suitability				UL 60947-4-1	
Approvals Certificates			OL 0092		
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=3RE4122-8CA31-4DY0

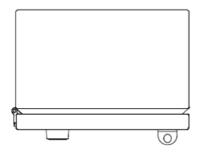
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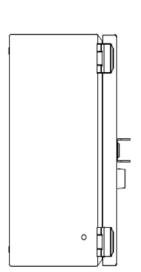
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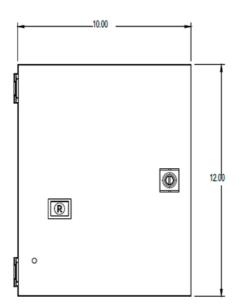
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-8CA31-4DY0&lang=en

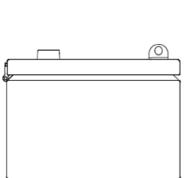
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-8CA31-4DY0/certificate









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