## **SIEMENS**

## **Data sheet**

3RE4122-7CA31-1EY0



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			
<ul> <li>at AC at 50 Hz rated value</li> </ul>	110 V		
<ul> <li>at AC at 60 Hz rated value</li> </ul>	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		
<ul><li>at 460/480 V rated value</li></ul>	20 hp		
<ul><li>at 575/600 V rated value</li></ul>	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					
<ul> <li>overload protection</li> </ul>	on		Yes		
<ul> <li>test function</li> </ul>			Yes		
external reset			Yes		
reset function			Manual, a	automatic and remote (with optional accessory)	
adjustment range of the	rmal overload trip unit		2.8 4		
	of auxiliary contacts of over		1		
number of NO contacts	of auxiliary contacts of ov	erload relay	1		
contact rating of auxiliar UL	ry contacts of overload rela	ay according to	5A@600	VAC (B600), 1A@250VDC (R300)	
Enclosure			_		
	MA rating of the enclosure	9	NEMA 3/	3R/4/12 enclosure	
design of the housing	INA Talling of the enclosure	<u> </u>		vatertight for outdoor use	
Mounting/wiring			Dust- & v	valertight for outdoor use	
			vertical		
mounting position			vertical		
fastening method				nounting and installation	
	ction for supply voltage line	e-side		pe terminals	
tightening torque [lbf·in]			18 21		
AWG cables single or m				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 outgoin	g feeder	Screw-ty	pe terminals	
tightening torque [lbf·in]	for load-side outgoing fee	eder	18 21	bf-in	
	ductor cross-sections for a deder single or multi-strand		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	pe terminals	
tightening torque [lbf·in]	at magnet coil		7 10 lb	f·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 maxi	mum	75 °C		
material of the conducto	or at magnet coil		CU		
type of electrical connec	ction for auxiliary contacts		Screw-ty	pe terminals	
tightening torque [lbf·in]	at contactor for auxiliary of	contacts	7 10 lb	f·in	
, i	iductor cross-sections at c y contacts single or multi-		2x (20	16), 2x (18 14)	
temperature of the cond maximum permissible	luctor at contactor for auxi	iliary contacts	75 °C		
material of the conducto	material of the conductor at contactor for auxiliary contacts		CU	CU	
type of electrical connections	ction at overload relay for	auxiliary	Screw-ty	pe terminals	
tightening torque [lbf·in] at overload relay for auxiliary contacts		7 10 lb	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	2x (20 16), 2x (18 14)	
	luctor at overload relay for		70 °C		
material of the conductor at overload relay for auxiliary contacts		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		Thermal	Thermal magnetic circuit breaker		
maximum short-circuit current breaking capacity (Icu)		·····			
• at 240 V		5 kA	5 kA		
• at 480 V		5 kA			
• at 600 V		5 kA			
			5 KA UL 60947-4-1		
Approvals Certificates			GL 00947		
General Product Ap-					
proval	Test Certificates	other	E	nvironment	





## 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=3RE4122-7CA31-1EY0

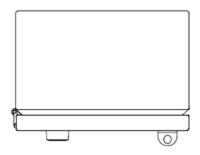
Search Datasheet in Service&Support (Manuals)

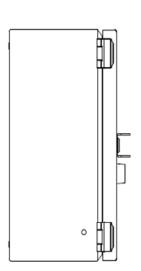
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-7CA31-1EY0/man

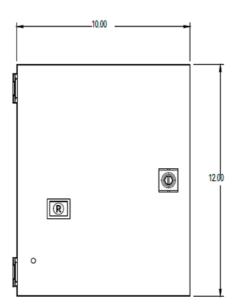
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-7CA31-1EY0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-7CA31-1EY0&lang=en</a>

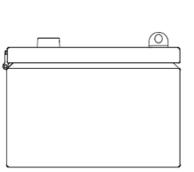
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-7CA31-1EY0/certificate









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