# SIEMENS

## Data sheet

## 3RE4122-3CA31-1GY0



### 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		
<ul> <li>at 200/208 V rated value</li> </ul>	2 hp	
<ul> <li>at 220/230 V rated value</li> </ul>	3 hp	
<ul> <li>at 460/480 V rated value</li> </ul>	5 hp	
<ul> <li>at 575/600 V rated value</li> </ul>	7.5 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	67 VA	
apparent holding power of magnet coil at AC	6.5 VA	
operating range factor control supply voltage rated value of magnet coil	0.8 1.1	
ON-delay time	9 38 ms	
OFF-delay time	4 16 ms	
Overload relay		

General Product Ap-	Test Certificates	other		Environment	
Approvals Certificates					
certificate of suitability			UL 60	)947-4-1	
• at 600 V		5 kA			
• at 480 V		5 kA			
• at 240 V		5 kA			
maximum short-circuit current breaking capacity (lcu)					
design of the short-circuit trip		Thermal magnetic circuit breaker			
circuit required					
	or short-circuit protection	of the main	Class	: J	
Short-circuit current rat					
material of the conductor at overload relay for auxiliary contacts		CU			
temperature of the cond contacts maximum perr	temperature of the conductor at overload relay for auxiliary		70 °C		
51	nductor cross-sections at iliary contacts single or m	,	2x (20	2x (20 16), 2x (18 14)	
0 0 1 1 1	at overload relay for auxi			7 10 lbf·in	
contacts					
material of the conductor at contactor for auxiliary contacts			Screw-type terminals		
maximum permissible			CU		
	ry contacts single or multi- ductor at contactor for aux		75 °C	75 °C	
	nductor cross-sections at		2x (20	2x (20 16), 2x (18 14)	
	at contactor for auxiliary			7 10 lbf·in	
	ction for auxiliary contacts	3		v-type terminals	
material of the conducto	or at magnet coil		CU		
temperature of the conc permissible	ductor at magnet coil max	imum	75 °C		
type of connectable cor AWG cables single or n	nductor cross-sections of nulti-stranded	magnet coil for	2x (16	6 12), 2x (14 8)	
tightening torque [lbf·in]			7 10 lbf·in		
type of electrical conne	ction of magnet coil		Screw-type terminals		
material of the conducto	or for load-side outgoing f	eeder	CU		
temperature of the conc maximum permissible	ductor for load-side outgoi	ng feeder	60 °C		
5.	nductor cross-sections for eeder single or multi-strar		2x (16 12), 2x (14 8)		
	for load-side outgoing fe		18 21 lbf-in		
	ction for load-side outgoin	•		Screw-type terminals	
material of the conducto			CU		
temperature of the cond	ductor for supply maximur	n permissible		60 °C	
type of connectable cor AWG cables single or n	nductor cross-sections at nulti-stranded	line-side for	2x (16	6 12), 2x (14 8)	
tightening torque [lbf·in]		, -		21 lbf-in	
	ction for supply voltage lin	ne-side		v-type terminals	
fastening method			Surfa	ce mounting and installation	
mounting position			vertica	al	
Mounting/wiring					
design of the housing			Dust-	& watertight for outdoor use	
degree of protection NE	EMA rating of the enclosu	re	NEMA	A 3/3R/4/12 enclosure	
Enclosure					
contact rating of auxilia UL	ry contacts of overload re	lay according to	5A@6	600VAC (B600), 1A@250VDC (R300)	
number of NO contacts	of auxiliary contacts of ov	verload relay	1		
number of NC contacts	of auxiliary contacts of ov	verload relay	1		
adjustment range of the	ermal overload trip unit		4.5	6.3	
reset function				al, automatic and remote (with optional accessory)	
<ul> <li>test function</li> <li>external reset</li> </ul>			Yes Yes		
<ul> <li>overload protection</li> </ul>	on		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=3RE4122-3CA31-1GY0

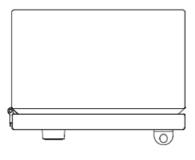
Search Datasheet in Service&Support (Manuals)

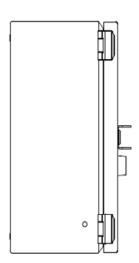
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3CA31-1GY0/man

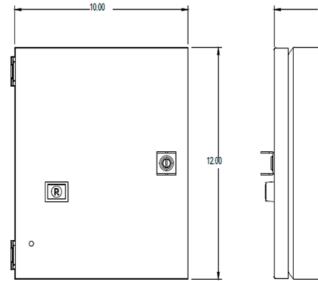
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-3CA31-1GY0&lang=en

Certificates/approvals

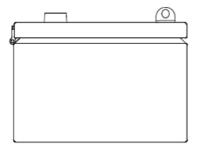
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