# SIEMENS

## Data sheet

## 3RE4122-3CA31-1KY0



### 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	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					
<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	2 hp					
• at 220/230 V rated value	3 hp					
• at 460/480 V rated value	5 hp					
• at 575/600 V rated value	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						

product function					
<ul> <li>overload protection</li> </ul>	on		Yes		
<ul> <li>test function</li> </ul>			Yes		
<ul> <li>external reset</li> </ul>			Yes		
reset function				al, automatic and remote (with optional accessory)	
adjustment range of the	· · · · · · · · · · · · · · · · · · ·		9 1	2.5	
	of auxiliary contacts of ov		1		
	of auxiliary contacts of ov		1		
contact rating of auxiliar UL	ry contacts of overload re	ay according to	5A@6	600VAC (B600), 1A@250VDC (R300)	
Enclosure					
degree of protection NE	MA rating of the enclosu	e	NEM	A 3/3R/4/12 enclosure	
design of the housing			Dust-	& watertight for outdoor use	
Mounting/wiring					
mounting position			vertic	al	
fastening method			Surfa	ce mounting and installation	
	ction for supply voltage lir	e-side	-	<i>y</i> -type terminals	
tightening torque [lbf·in]				21 lbf-in	
	ductor cross-sections at	ine-side for	2x (16	5 12), 2x (14 8)	
temperature of the cond	luctor for supply maximur	n permissible	60 °C		
material of the conducto	or for supply		CU		
type of electrical connect	ction for load-side outgoin	g feeder	Screv	v-type terminals	
tightening torque [lbf·in]	for load-side outgoing fe	eder	18	21 lbf-in	
5.	ductor cross-sections for eeder single or multi-strar		2x (16	5 12), 2x (14 8)	
temperature of the cond maximum permissible	luctor for load-side outgoi	ng feeder	60 °C		
material of the conducto	or for load-side outgoing f	eeder	CU		
type of electrical connect	ction of magnet coil		Screv	v-type terminals	
tightening torque [lbf·in]	at magnet coil		7 1	0 lbf·in	
type of connectable con AWG cables single or m	ductor cross-sections of nulti-stranded	magnet coil for		5 12), 2x (14 8)	
permissible	luctor at magnet coil max	imum	75 °C		
material of the conducto			CU		
	ction for auxiliary contacts			<i>i</i> -type terminals	
	at contactor for auxiliary			7 10 lbf-in	
AWG cables for auxiliar	ductor cross-sections at y contacts single or multi	stranded		0 16), 2x (18 14)	
maximum permissible	luctor at contactor for aux	,	75 °C		
	or at contactor for auxiliar		CU	(has terminals	
type of electrical connection at overload relay for auxiliary contacts		Screv	Screw-type terminals		
tightening torque [lbf-in] at overload relay for auxiliary contacts		7 1	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 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			
Short-circuit current rat	ing				
design of the fuse link for short-circuit protection of the main circuit required		Class	J		
design of the short-circuit trip		Thern	nal magnetic circuit breaker		
maximum short-circuit current breaking capacity (Icu)					
• at 240 V		5 kA			
• at 480 V		5 kA			
• at 600 V		5 kA			
certificate of suitability			UL 60	947-4-1	
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	





**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=3RE4122-3CA31-1KY0

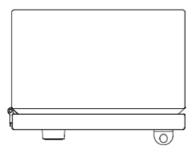
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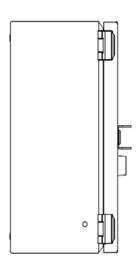
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3CA31-1KY0/man

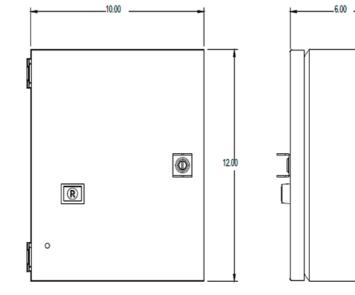
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-3CA31-1KY0&lang=en

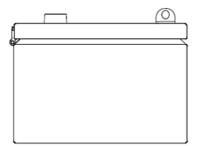
Certificates/approvals

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last modified:

4/15/2021 🖸