# SIEMENS

## Data sheet

## 3RE4123-5CA31-4FY0



#### STARTER, FVNR, S2, 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]	21 lb	
Height x Width x Depth [in]	14 × 12 × 8 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	15 hp	
• at 460/480 V rated value	30 hp	
• at 575/600 V rated value	40 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), 5A@600V(P600)	
Coil		
apparent pick-up power of magnet coil at AC	188 VA	
apparent holding power of magnet coil at AC	16.5 VA	
operating range factor control supply voltage rated value of magnet coil	0.8 1.1	
ON-delay time	10 80 ms	
OFF-delay time	10 18 ms	
Overload relay		

product function						
<ul> <li>overload protection</li> </ul>			Yes			
<ul> <li>test function</li> </ul>			Yes			
external reset			Yes			
reset function				al, automatic and remote (with optional accessory)		
adjustment range of thermal overload tr			28	40		
number of NC contacts of auxiliary conta			1			
number of NO contacts of auxiliary cont		•	1			
contact rating of auxiliary contacts of overload relay according to UL			5A@600VAC (B600), 1A@250VDC (R300)			
Enclosure						
degree of protection NEMA rating of the	enclosure		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		
type of electrical connection for supply v	/oltage line-s	ide		Box lug		
tightening torque [lbf·in] for supply			26 39 lbf-in			
type of connectable conductor cross-see AWG cables single or multi-stranded	oss-sections at line-side for			2x (18 2), 1x (18 1)		
temperature of the conductor for supply	temperature of the conductor for supply maximum permissible			60 °C		
material of the conductor for supply				CU		
type of electrical connection for load-sid	e outgoing fe	eeder	Box Iu	Box lug		
tightening torque [lbf·in] for load-side ou	f·in] for load-side outgoing feeder			39 lbf-in		
type of connectable conductor cross-sec for load-side outgoing feeder single or n			2x (18	3 2), 1x (18 1)		
temperature of the conductor for load-si maximum permissible	de outgoing	feeder	60 °C			
material of the conductor for load-side o	outgoing feed	er	CU			
type of electrical connection of magnet of	coil		Screv	v-type terminals		
tightening torque [lbf·in] at magnet coil			7 1	0 lbf·in		
type of connectable conductor cross-see AWG cables single or multi-stranded	ctions of mag	of magnet coil for		2x (18 2), 1x (18 1)		
temperature of the conductor at magnet permissible		m	75 °C			
material of the conductor at magnet coil	naterial of the conductor at magnet coil			CU		
type of electrical connection for auxiliary	,			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			75 °C			
material of the conductor at contactor fo			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 rating						
design of the fuse link for short-circuit protection of the main circuit required		Class	J			
design of the short-circuit trip		Thern	Thermal 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	ates o	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=3RE4123-5CA31-4FY0

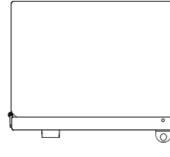
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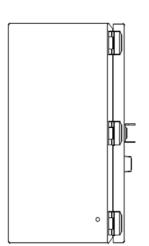
https://support.industry.siemens.com/cs/US/en/ps/3RE4123-5CA31-4FY0/man

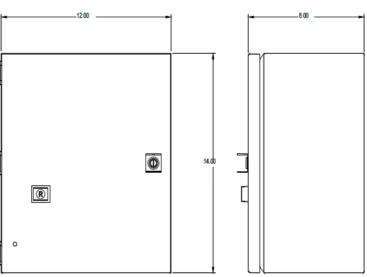
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4123-5CA31-4FY0&lang=en

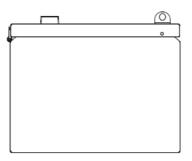
Certificates/approvals

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