SIEMENS

Data sheet

3RE4122-6CA31-1KY0



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	
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	7.5 hp
• at 220/230 V rated value	7.5 hp
• at 460/480 V rated value	15 hp
 at 575/600 V rated value 	20 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		Yes
• test function		Yes
external reset		Yes
reset function		Manual, automatic and remote (with optional accessory)
adjustment range of thermal overload trip unit		9 12.5
number of NC contacts of auxiliary contacts of over	load relay	1
number of NO contacts of auxiliary contacts of over	load relay	1
contact rating of auxiliary contacts of overload relay UL	according to	5A@600VAC (B600), 1A@250VDC (R300)
Enclosure		
degree of protection NEMA rating of the enclosure		NEMA 3/3R/4/12 enclosure
design of the housing		Dust- & watertight for outdoor use
Mounting/wiring		Dust- & watertight for outdoor use
		variant
mounting position		vertical Configuration and installation
fastening method		Surface mounting and installation
type of electrical connection for supply voltage line-	side	Screw-type terminals
tightening torque [lbf-in] for supply		18 21 lbf·in
type of connectable conductor cross-sections at line AWG cables single or multi-stranded	e-side for	2x (16 12), 2x (14 8)
temperature of the conductor for supply maximum	permissible	0°C
material of the conductor for supply		CU
type of electrical connection for load-side outgoing	feeder	Screw-type terminals
tightening torque [lbf·in] for load-side outgoing feed	er	18 21 lbf·in
type of connectable conductor cross-sections for A for load-side outgoing feeder single or multi-strander		2x (16 12), 2x (14 8)
temperature of the conductor for load-side outgoing maximum permissible	j feeder	60 °C
material of the conductor for load-side outgoing fee	der	CU
type of electrical connection of magnet coil		Screw-type terminals
tightening torque [lbf·in] at magnet coil		7 10 lbf-in
type of connectable conductor cross-sections of ma AWG cables single or multi-stranded	agnet coil for	2x (16 12), 2x (14 8)
temperature of the conductor at magnet coil maxim permissible	um	75 °C
material of the conductor at magnet coil		CU
type of electrical connection for auxiliary contacts		Screw-type terminals
tightening torque [lbf-in] at contactor for auxiliary co	ntacts	7 10 lbf·in
type of connectable conductor cross-sections at co AWG cables for auxiliary contacts single or multi-st		2x (20 16), 2x (18 14)
temperature of the conductor at contactor for auxilia maximum permissible	ary contacts	75 °C
material of the conductor at contactor for auxiliary of	contacts	CU
type of electrical connection at overload relay for accontacts	uxiliary	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxilia	ry contacts	7 10 lbf-in
type of connectable conductor cross-sections at over for AWG cables for auxiliary contacts single or multi-	erload relay	2x (20 16), 2x (18 14)
temperature of the conductor at overload relay for a contacts maximum permissible		70 °C
material of the conductor at overload relay for auxil	iary 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		Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Ic	:u)	,
• at 240 V	- /	5 kA
• at 480 V		5 kA
• at 600 V		5 kA
		UL 60947-4-1
Approvals Certificates		
General Product An-		
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=3RE4122-6CA31-1KY0

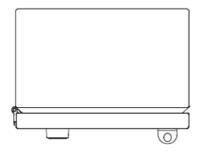
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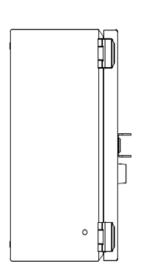
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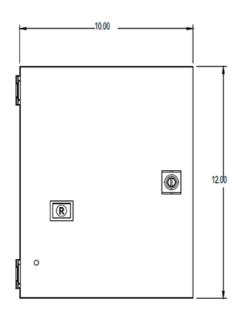
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-6CA31-1KY0&lang=en

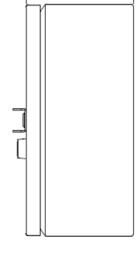
Certificates/approvals

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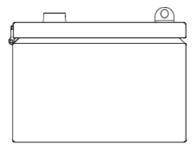








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