SIEMENS

Data sheet

3RE4122-3CA31-1FY0





product brand name	Siemens
product brand name	
product designation	Non-reversing motor starter
special product feature	No factory installed accessories
General technical data	4 = 11
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	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	

mand set fissestion	
product function	Von
overload protection test function	Yes Yes
test function external reset	Yes
reset function	
	Manual, automatic and remote (with optional accessory)
adjustment range of thermal overload trip unit	3.5 5
number of NC contacts of auxiliary contacts of overload re	·
number of NO contacts of auxiliary contacts of overload re-	- 7
contact rating of auxiliary contacts of overload relay according UL	ding 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	
mounting position	vertical
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-side to AWG cables single or multi-stranded	for 2x (16 12), 2x (14 8)
temperature of the conductor for supply maximum permiss	sible 60 °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 feeder	18 21 lbf-in
type of connectable conductor cross-sections for AWG cal for load-side outgoing feeder single or multi-stranded	bles 2x (16 12), 2x (14 8)
temperature of the conductor for load-side outgoing feede maximum permissible	60 °C
material of the conductor for load-side outgoing feeder	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 magnet c	
AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum	75 °C
permissible	70 0
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 contacts	7 10 lbf·in
type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded	
temperature of the conductor at contactor for auxiliary con maximum permissible	tacts 75 °C
material of the conductor at contactor for auxiliary contacts	S CU
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxiliary cont	acts 7 10 lbf·in
type of connectable conductor cross-sections at overload for AWG cables for auxiliary contacts single or multi-strand	
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	70 °C
material of the conductor at overload relay for auxiliary con	ntacts CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the ma circuit required	in Class J
design of the short-circuit trip	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 60947-4-1
Approvals Certificates	
General Product Approval Test Certificates other	Environment
provai	





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=3RE4122-3CA31-1FY0

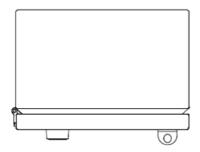
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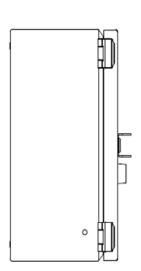
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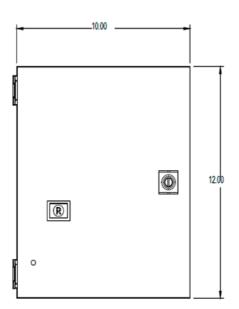
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-3CA31-1FY0&lang=en

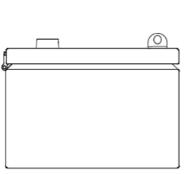
Certificates/approvals

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