SIEMENS

Data sheet

3RE4122-7CA31-4CB0



STARTER, 3RE41227CA314CB0, WITH MODS

product designation special product feature Start-Stop Push Buttons General technical data weight [Ib] Height X Width X Depth [in] 12 × 10 × 6 in touch protection against electrical shock installation altitude [fit] at height above sea level maximum country of origin Country of origin Country of origin Country of origin Country of voltage of the control supply voltage control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 16 voltage of the control supply voltage at 200/208 V rated value 10 hp at 480/480 V rated value 20 hp at 57/600 V rated value 25 hp contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum prechanical service life (operating cycles) of the main contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts f			
special product feature General technical data weight [B] Height x Width x Depth [in] 12 × 10 × 6 in 12 × 10 × 6 in 12 × 10 × 6 in Na for enclosed products instalation altitude [ft] at height above sea level maximum country of origin Country of origin Germany Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage at AC at 50 Hz rated value 110 V at AC at 60 Hz rated value 120 V disconnector functionality yielded mechanical performance [tp] for 3-phase AC motor at 200/208 V rated value 10 hp at 20/208 V rated value 10 hp at 575/600 V rated value 25 hp Contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum performancial service life (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts for auxiliary contacts 1	product brand name	Siemens	
Weight [Ib] 15 lb 16 legists Width x Depth [in] 12 x 10 x 6 in 10 lours 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 lype of voltage of the control supply voltage AC control supply voltage AC control supply voltage 4 AC at 50 Hz rated value 110 V set AC at 60 Hz rated value 120 V sideone for functionality No longe set at AC at 60 Hz rated value 10 hp set 202030 V rated value 10 hp set 202030 V rated value 20 hp set 575/600 V rated value 20 hp set 575/600 V rated value 20 hp set 575/600 V rated value 20 hp set 675/600 V rated value 20 hp set	product designation	Non-reversing motor starter	
weight [b] Height x Width x Depth [in] 12 x 10 x 6 in 12 x 10 x 6 in 15 touch protection against electrical shock installation altitude [ft] at height above sea level maximum 6 560 ft country of origin Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value • at C200208 V rated value • at 200208 V rated value • at 200208 V rated value • at 200208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 675/600 V rated value • at 676/600 V rated	special product feature	Start-Stop Push Buttons	
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at AC at 60 Hz rated value disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value be at 575/600 V rated value contactor number of NO contacts for main contacts operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical number of NC contacts for auxiliary contacts number of NC auxiliary contacts of contactor according to UL coil apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	control supply voltage		
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number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	• at 460/480 V rated value	20 hp	
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	• at 575/600 V rated value	25 hp	
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typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 0FF-delay time 4 16 ms	operating voltage at AC-3 rated value maximum	600 V	
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number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 201 201 201 201 201 201 201 20	Auxiliary contact		
number of total auxiliary contacts maximum 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 apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 8 10A@600V(A600), 2.5A@600V(Q600) 79 VA 8.5 VA 0.8 1.1 8 OFF-delay time 8 40 ms OFF-delay time 4 16 ms	number of NC contacts for auxiliary contacts	1	
contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time 10A@600V(A600), 2.5A@600V(Q600) 79 VA 8.5 VA 0.8 1.1 8 40 ms 4 16 ms	number of NO contacts for auxiliary contacts	1	
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	number of total auxiliary contacts maximum	8	
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	contact rating of auxiliary contacts of contactor according to UL	10A@600V(A600), 2.5A@600V(Q600)	
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	Coil		
operating range factor control supply voltage rated value of magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	apparent pick-up power of magnet coil at AC	79 VA	
magnet coil ON-delay time 8 40 ms OFF-delay time 4 16 ms	apparent holding power of magnet coil at AC	8.5 VA	
OFF-delay time 4 16 ms		0.8 1.1	
·	ON-delay time	8 40 ms	
Overload relay	OFF-delay time	4 16 ms	
	Overload relay		

and the found in	
product function	Voo
overload protection toot function	Yes Yes
test function external reset	Yes
reset function	
	Manual, automatic and remote (with optional accessory)
adjustment range of thermal overload trip unit	17 22
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	
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	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 for AWG cables single or multi-stranded	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 feeder	18 21 lbf-in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2x (16 12), 2x (14 8)
temperature of the conductor for load-side outgoing feeder 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 coil for AWG cables single or multi-stranded	2x (16 12), 2x (14 8)
temperature of the conductor at magnet coil maximum permissible	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 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 for auxiliary contacts	CU
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf-in] at overload relay for auxiliary contacts	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
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	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (lcu)	
• 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	Dangerous Good 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=3RE4122-7CA31-4CB0

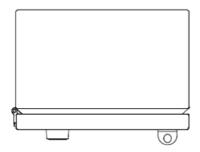
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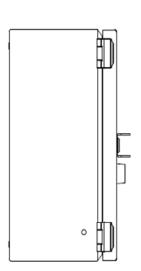
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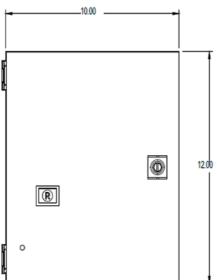
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-7CA31-4CB0&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-7CA31-4CB0/certificate









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