SIEMENS

Data sheet

3RE4122-3CA31-1HF6



STARTER, 3RE41223CA311HY0, WITH MODS

product designation product designation product designation product designation product feature Hand-Off-Auto Selector Switch General technical data weight [ib] 15 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 of origin Cermany Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage at 1AC at 50 Hz rated value 110 V 110 × 14 Ca 160 Hz rated value 120 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor 111 × 120 ×			
special product feature General technical data weight [Ib] Height x Width x Depth [in] 12 x 10 x 6 in 13 x 10 x 6 in 14 x 10 x 6 in 15 touch protection against electrical shock Instalation altitude [ft] at height above sea level maximum 6 550 ft country of origin Country Countr	product brand name	Siemens	
Weight [b] 15 15 15 16 12 × 10 × 6 in 16 16 16 16 16 16 16 1	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 12 x 10 x 6 in 15 touch protection against electrical shock installation altitude [ft] at height above sea level maximum 6 550 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 200208 V rated value • at 200208 V rated value • at 200208 V rated value • at 200200 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 value **AUXIII STORMAR SON V rated V	special product feature	Hand-Off-Auto Selector Switch	
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 type of voltage of the control supply voltage AC control supply voltage 4 AC control supply voltage 6 AC control supply voltage 7 AC control supply voltage 7 AC control supply voltage 8 AC control supply voltage 8 AC control supply voltage 9 AC control supply voltage 1 AC control su	General technical data		
touch protection against electrical shock installation altitude (II) at height above sea level maximum 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 50 Hz rated value 120 V disconnector functionality y elided mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 2 hp at 460/480 V rated value 3 hp at 460/480 V rated value 5 hp at 575/600 V rated value 7 tipe 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 Auxillary contact number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 3 number of NO contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 3 number of NO contacts for auxiliary contacts 3 number of NO contacts for auxiliary contacts 4 number of NO contacts for auxiliary contacts 5 number of NO contacts for auxiliary contacts 6 NO contacts for auxiliary contacts 7 NO contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL Coll apparent pick-up power of magnet coil at AC 6.5 VA 0 operating range factor control supply voltage rated value of magnet coil 0 N-delay time 9 38 ms	weight [lb]	15 lb	
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Country of origin Germany Power and control electronics Inumber of poles for main current circuit Itype of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at 200/208 V rated value • at 2200/230 V rated value • at 2200/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 200/230 V rated value • at 300/240 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 600 V rated value Auxiliary contacts for main current circuit at AC at 60 Hz maximum • 600 V mechanical service life (operating cycles) of the main contacts by pical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number	touch protection against electrical shock	NA for enclosed products	
number of poles for main current circuit 1 ype of voltage of the control supply voltage 1 at AC at 50 Hz rated value 1 110 V 1 at AC at 50 Hz rated value 1 120 V disconnector functionality 1 yielded mechanical performance [hp] for 3-phase AC motor 1 at 200/208 V rated value 2 hp 1 at 200/208 V rated value 2 hp 1 at 200/208 V rated value 3 hp 1 at 200/208 V rated value 5 hp 1 at 2575/600 V rated value 7,5 hp Contactor number of NC 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 operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum 600 V mechanical service life (operating cycles) of the main contacts typical number of NC contacts for auxiliary contacts 1 number of NC tool auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC 0 for VA apparent pick-up power of magnet coil at AC 0 apparent holding power of magnet coil at AC 0 apparent holding power of magnet coil at AC 0 operating range factor control supply voltage rated value of magnet coil 0 NO-delay time 9 38 ms 0 FF-delay time	installation altitude [ft] at height above sea level maximum	6 560 ft	
number of poles for main current circuit type of voltage of the control supply voltage 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 [hp] for 3-phase AC motor at 200/208 V rated value 2 hp at 220/230 V rated value 3 hp at 575/600 V rated value 5 hp at 575/600 V rated value 7.5 hp Contactor number of NO contacts 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 Auxillary contact number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 3 number of NO contacts for auxiliary contacts 4 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 3 number of NO contacts for auxiliary contacts 4 number of NO contacts for auxiliary contacts 5 number of NO contacts for auxiliary contacts 6 NO contact rating of auxiliary contacts of contactor according to UL coil apparent pick-up power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent pick-up power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent pick-up to wer of magnet coil at AC 6 NO A apparent pick-up to wer of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A apparent holding power of magnet coil at AC 6 NO A a	country of origin	Germany	
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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 [hp] for 3-phase AC motor at 200/208 V rated value 2 hp at 220/230 V rated value 2 hp at 60/480 V rated value 5 hp at 575/600 V rated value 5 hp contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum foot of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts for auxiliary contacts 1 number of total auxiliary contacts maximum 8 contact rating of auxiliary contacts for contact or 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 9 38 ms OFF-delay time	number of poles for main current circuit	3	
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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 5 hp at 575/600 V rated value 7.5 hp 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 Auxiliary contact number of NO contacts for auxiliary contacts 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 Coil apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 1 0.0 V 2 hp 6 hp	control supply voltage		
disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 260/480 V rated value • at 460/480 V rated value • at 4575/600 V rated value 7.5 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 mechanical service life (operating cycles) of the main contacts typical Auxiliary contact 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 Coil apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 0 Ho OFF-delay time 2 hp 4 L 16 ms	 at AC at 50 Hz rated value 	110 V	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 55/600 V rated value • at 575/600 V rated value • at 575/600 V rated value 7.5 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 about 1000 V maximum number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts maximum acontact 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 apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms	at AC at 60 Hz rated value	120 V	
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at 220/230 V rated value at 460/480 V rated value bt at 575/600 V rated value runber 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 activate of NO contacts for auxiliary contacts 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 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 9 38 ms OFF-delay time 4 16 ms	yielded mechanical performance [hp] for 3-phase AC motor		
at 460/480 V rated value bt 575/600 V rated value 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 600 V 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 8 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 9 38 ms OFF-delay time 4 16 ms	at 200/208 V rated value	2 hp	
• at 575/600 V rated value Contactor number of NO contacts for main corrects 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 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 9 38 ms OFF-delay time	at 220/230 V rated value	3 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 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 9 38 ms OFF-delay time 4 16 ms	at 460/480 V rated value	5 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 9 38 ms OFF-delay time 4 16 ms	• at 575/600 V rated value	7.5 hp	
operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum 600 V 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 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 OFF-delay time 600 V 30 000 000 100 V	Contactor		
maximum operating voltage at AC-3 rated value maximum 600 V 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 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 4 apparent holding power of magnet coil at AC 5 operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms	number of NO contacts for main contacts	3	
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 9 38 ms OFF-delay time 4 16 ms		600 V	
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 9 38 ms OFF-delay time 4 16 ms	operating voltage at AC-3 rated value maximum	600 V	
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 9 38 ms OFF-delay time 4 16 ms		30 000 000	
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 9 38 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) 67 VA 6.5 VA 0.8 1.1 9 38 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 9 38 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 9 38 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 OFF-delay time 4 16 ms	Coil		
operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms	apparent pick-up power of magnet coil at AC	67 VA	
magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms	apparent holding power of magnet coil at AC	6.5 VA	
OFF-delay time 4 16 ms		0.8 1.1	
·	ON-delay time	9 38 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	5.5 8
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	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 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=3RE4122-3CA31-1HF6

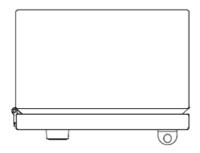
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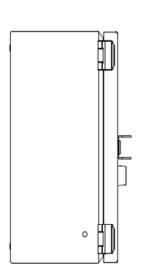
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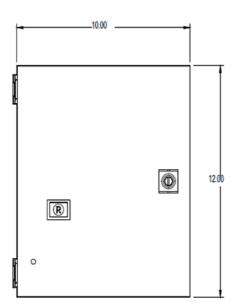
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-3CA31-1HF6&lang=en

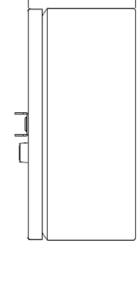
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3CA31-1HF6/certificate

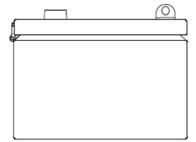








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last modified: 4/15/2021 ☑