SIEMENS

Data sheet

3RE4122-6CA31-1HF6



STARTER, 3RE41226CA311HY0, WITH MODS

product brand name seems product designation special product feature special product feature Hand-Off-Auto Selector Switch General technical data weight [Ib] Height X Width x Depth [in] 12 × 10 × 6 in Nu for enclosed products installation altitude [fit] 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 control supply voltage 4 at AC at 50 Hz rated value 4 at AC at 50 Hz rated value 4 at 200230 V rated value 5 at 200230 V rated value 7.5 hp 4 at 300480 V rated value 5 at 55600 V rated value 5 at 575600 V rated value 6 at 200230 V rated value 7 at 50 hp 6 at 450-45 or main contacts 7 special good of the contacts for main contacts 7 special good of the contacts for main contacts 7 special good of the contacts for main contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contacts for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7 special good of the contact for auxiliary contacts 7				
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 13 × 10 × 6 in 14 × 10 × 6 in 15 × 10 × 6 in 15 × 10 × 6 in 16 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	product brand name	Siemens		
Weight [Ib] 15 lb	product designation	Non-reversing motor starter		
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 x 10 x	special product feature	Hand-Off-Auto Selector Switch		
Height x Wirdth x Depth [in] touch protection against electrical shock Installation altitude [ft] at height above sea level maximum of ofest of recountry of origin Cermany Power and control ofestronics number of poles for main current circuit 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 AC at 60 Hz rated value • at 20/230 V rated value • at 20/230 V rated value • at 40/480 V rated value • at 575/600 V rated value • at 675/600 V rated	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 et at AC at 50 Hz rated value 110 V at AC at 60 Hz rated value 120 V disconnector functionality yielded mechanical performance (Ip) for 3-phase AC motor at 200/208 V rated value 7.5 hp at 460/480 V rated value 7.5 hp at 460/480 V rated value 7.5 hp at 575/600 V rated value 7.5 hp at 675/600 V rated value 7.5 hp 600 V maximum operating voltage at AC-3 rated value maximum mechanical service (Ife (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 operating of auxiliary contacts of contactor according to UL Coll apparent pick-up power of magnet coil at AC 3 sy VA apparent pick-up power of magnet coil at AC 4 sy VA apparent pick-up power of magnet coil at AC 5 sy VA 5 operating range factor control supply voltage rated value of magnet coil 0 N-delay time 8 40 ms	weight [lb]	15 lb		
Installation altitude [ft] at height above sea level maximum Country of origin Country of origin Country of origin Country of origin Countrol electronics number of poles for main current circuit 1ye 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 No yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 15 hp at 200/208 V rated value 15 hp at 460/480 V rated value 20 hp Contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value of the main contacts of auxiliary contacts number of NC contacts for auxiliary contacts 1	Height x Width x Depth [in]	12 × 10 × 6 in		
Country of origin Power and control electronics number of poles for main current circuit 13 1ype 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 110 V sidecometor functionality No yielded mechanical performance [hp] for 3-phase AC motor • 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 • on the formation 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 Auxillary contact number of NC contacts for auxillary contacts 1 number of NC contacts for auxillary contacts 1 number of NC contacts for auxillary contacts 1 number of NO contacts for auxillary contacts	touch protection against electrical shock	NA for enclosed products		
Power and control electronics number of poles for main current circuit type of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 50 Hz rated value • at AC at 50 Hz rated value 110 V • at AC at 50 Hz rated value 120 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 450/480 V rated value • at 4575/600 V rated value • at 575/600 V rated value 20 hp Contactor number of NC contacts for main contacts 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 1 number of total auxiliary contacts 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	installation altitude [ft] at height above sea level maximum	6 560 ft		
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control supply voltage at AC at 50 Hz rated value 110 V at AC at 50 Hz rated value 120 V disconnector functionality 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 60/480 V rated value 15 hp at 575/600 V rated value 20 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 operating voltage if (operating cycles) of the main contacts typical Auxiliary contact number of NO 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 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 8 40 ms OFF-delay time	number of poles for main current circuit	3		
at AC at 50 Hz rated value 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 7.5 hp at 220/230 V rated value 7.5 hp at 460/480 V rated value 7.5 hp at 460/480 V rated value 7.5 hp at 75/600 V rated value 7.5 hp at 75/600 V rated value 8 ob 15/600 V rated value 9 ob 15/600 V rated value 9 ob 15/600 V rated value 8 ob 15/600 V rated value 9 ob 15/600 V rated value maximum 9 ob 16/00 V rated value maximum 9 rated value of 16/00 V rated value rated value of 16/00 V rated value val	type of voltage of the control supply voltage	AC		
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 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 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 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 8 40 ms OFF-delay time 4 16 ms	control supply voltage			
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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 575/600 V rated value 20 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 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 8 40 ms OFF-delay time 4 16 ms	at AC at 60 Hz rated value	120 V		
at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 675/600 V rated value be at 675/600 V rated value contactor number of NO contacts 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 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 NC contacts for auxiliary contacts number of total auxiliary contacts for auxiliary contacts number of total 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 7.5 hp 8.0 v 9.0 v	disconnector functionality	No		
at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 20 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 accontact 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 0 ON-delay time 4 16 ms	yielded mechanical performance [hp] for 3-phase AC motor			
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ontactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum 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	• at 220/230 V rated value	7.5 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 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 4 16 ms	• at 460/480 V rated value	15 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 NC 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	20 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 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 10 000 000 000 000 000 000 00	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 0FF-delay time 30 000 000 1 000 000 1	· · · · · · · · · · · · · · · · · · ·	600 V		
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 OFF-delay time 1 1 1 1 1 1 1 1 1 1 1 1 1	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 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 40 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 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 N - 4 16 ms 1 10 1	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 0.8 1.1 0N-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 0.8 1.1 10A@600V(A600), 2.5A@600V(Q600)	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 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 8.5 VA 0.8 1.1 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			

product function			.,			
overload protection	n		Yes			
 test function 			Yes			
external reset			Yes			
reset function			Manual, automatic and remote (with optional accessory)			
adjustment range of the	rmal overload trip unit		5.5 8			
number of NC contacts	of auxiliary contacts of ov	erload relay	1			
number of NO contacts	of auxiliary contacts of ov	rerload relay	1			
contact rating of auxiliar	ry contacts of overload rel	ay according to	5A@60	00VAC (B600), 1A@250	OVDC (R300)	
Enclosure			_	_		
	MA rating of the enclosur	Δ	NΕMΔ	3/3R/4/12 enclosure		
design of the housing	MA fatting of the effetosat	<u> </u>		watertight for outdoor		
Mounting/wiring			Dust- 0	watertight for outdoor t	use	
			vertice			
mounting position			vertica		U	
fastening method		.,		e mounting and installat	lion	
	ction for supply voltage lin	e-side		type terminals		
tightening torque [lbf·in]				1 lbf·in		
AWG cables single or m				12), 2x (14 8)		
temperature of the cond	luctor for supply maximun	n permissible	60 °C			
material of the conducto	or for supply		CU			
type of electrical connec	ction for load-side outgoin	g feeder	Screw-	type terminals		
tightening torque [lbf·in]	for load-side outgoing fee	eder	18 2	1 lbf·in		
	ductor cross-sections for eeder single or multi-stran		2x (16 12), 2x (14 8)			
temperature of the cond maximum permissible	luctor for load-side outgoi	ng feeder	60 °C			
material of the conducto	or for load-side outgoing fe	eeder	CU			
type of electrical connec	ction of magnet coil		Screw-	type terminals		
tightening torque [lbf·in]	at magnet coil		7 10	lbf-in		
type of connectable con AWG cables single or m	iductor cross-sections of r	magnet coil for	2x (16 12), 2x (14 8)			
temperature of the cond permissible	luctor at magnet coil maxi	mum	75 °C			
material of the conducto	or at magnet coil		CU			
type of electrical connec	ction for auxiliary contacts		Screw-	type terminals		
tightening torque [lbf·in]	at contactor for auxiliary	contacts	7 10	lbf·in		
31	iductor cross-sections at o		2x (20	16), 2x (18 14)		
temperature of the cond maximum permissible	luctor at contactor for aux	iliary contacts	75 °C			
material of the conducto	or at contactor for auxiliary	/ contacts	CU	CU		
type of electrical connection contacts	ction at overload relay for	auxiliary	Screw-type terminals			
tightening torque [lbf·in]	ue [lbf·in] at overload relay for auxiliary contacts		7 10	7 10 lbf-in		
type of connectable con-	iductor cross-sections at ciliary contacts single or mi	overload relay	2x (20 16), 2x (18 14)			
	luctor at overload relay for		70 °C	70 °C		
	or at overload relay for aux	xiliary contacts	CU			
Short-circuit current rati	,	, , , , , , , , , , , , , , , , , , , ,				
	or short-circuit protection of	of the main	Class J			
design of the short-circuit trip		Therm	Thermal magnetic circuit breaker			
maximum short-circuit current breaking capacity (Icu)		, north				
			5 kA	5 kA		
● at 240 V			5 kA			
	• at 600 V 5 kA					
				047.4.1		
certificate of suitability Approvals Certificates			OL 608	947-4-1		
General Product Ap-						
proval	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=3RE4122-6CA31-1HF6

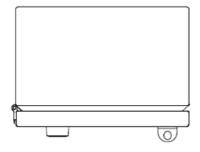
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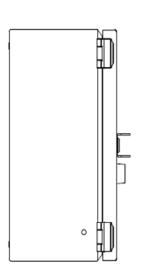
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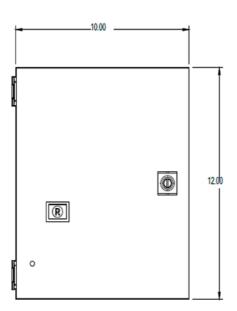
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-6CA31-1HF6&lang=en

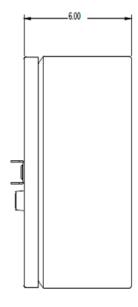
Certificates/approvals

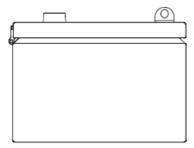
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