SIEMENS

Data sheet

3RE4122-5CA31-1FY0



STARTER,FVNR,S0,3PH,THOLR,120V,N3R/4/12

product brand name product designation Non-reversing motor starter No factory installed accessories General technical data weight [ib] Height x Width x Depth [in] 12 x 10 x 6 in touch protection against electrical shock Installation altitude [fit] at height above sea level maximum of origin Country C				
Special product feature General technical data weight [Ib] Height x Width x Depth [in] 12 x 10 x 6 in touch protection against electrical shock Installation altitude [If] at height above sea level maximum 6 550 If country of origin Country of origin Country of origin Country of origin Country of poles for main current circuit 3 type of voltage of the control supply voltage 0 at AC at 50 Hz rated value 110 V 110	product brand name	Siemens		
weight [ib] 15 ib Height x Width x Depth [in] 12 x 10 x 6 in touch protection against electrical shock NA for enclosed products installation altitude (fig at height above sea level maximum 6 550 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 ft z rated value 110 V • at AC at 60 ft z rated value 120 V disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 5 hp • at 460/480 V rated value 10 hp • at 675/600 V rated value 15 hp • at 675/600 V rated value 15 hp • at 675/600 V rated value 16 hp • at 675/600 V rated value 17 hp • at 675/600 V rated value 18 hp • at 675/600 V rated value 19 hp • at 675/600 V rated value 10	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	No factory installed accessories		
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 Germany Power and control electronics Installation altitude [ft] at height above sea level maximum 6 560 ft Installation altitude [ft] at height above sea level maximum 6 560 ft Installation altitude [ft] at height above sea level maximum 6 560 ft Installation altitude [ft] at height above sea level maximum 6 560 ft Installation altitude [ft] at height above sea level maximum 6 00 V Installation altitude 7 0 00 000 000 Installation altitude 7 0 00 000 000 000 Installation altitude 7 0 00 000 000 000 Installation altitude 7 0 00 000 000 000 000 Installation altitude 7 0 00 000 000 000 000 Installation altitude 7 0 00 000 000 000 000 000 000 000 00	General technical data			
touch protection against electrical shock installation altitude (If) 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 yielded mechanical performance (Ip) for 3-phase AC motor • at 200/208 V rated value 5 hp • at 220/230 V rated value 15 hp • at 575/600 V rated value 15 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 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 1 number of NO contacts for auxilia	weight [lb]	15 lb		
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 5 hp • at 250/230 V rated value 10 hp • at 250/300 V rated value 15 hp • at 460/480 V rated value 15 hp • at 575/600 V rated value 15 hp Contactor number of NO contacts for main contacts 20 performance in circuit at AC at 60 Hz maximum 20 performance in current circuit at AC at 60 Hz maximum 30 performance in current circuit at AC at 60 Hz maximum 40 performance in current circuit at AC at 60 Hz maximum 50 performance in current circuit at AC at 60 Hz maximum 600 V mechanical service life (operating cycles) of the main contacts typical 10 number of NC contacts for auxiliary contacts 1 number of NC contacts for	Height x Width x Depth [in]	12 × 10 × 6 in		
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 Itupov disconnector 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 Tonumber of NO contacts for main contacts operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum food 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 NO contacts for auxiliary contacts 1 number of NC auxiliary contacts of contactor according to UL Oil apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil non-delay time ON-delay time 4 16 ms	touch protection against electrical shock	NA for enclosed products		
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 No yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 15 hp • at 220/230 V rated value 15 hp • at 250/308 V rated value 15 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 mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 3 contact rating of auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 4 coperating range factor control supply voltage rated value of magnet coil 0N-delay time 9 38 ms OFF-delay time 4 16 ms	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 5 hp at 220/230 V rated value 5 hp at 220/230 V rated value 5 hp at 575/600 V rated value 10 hp at 575/600 V rated value 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 Auxiliary contact number of NC 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 of VA 6 operating range factor control supply voltage rated value of magnet coil 0 Nd-delay time 9 38 ms 0 OFF-delay time 4 16 ms	country of origin	Germany		
type of voltage of the control supply voltage • at AC at 50 Hz rated value • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 250/208 V rated value • at 250/208 V rated value • at 55 hp • at 250/208 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 50 hp • at 575/600 V rated value • bhp Contactor number of NO contacts for main contacts 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 anumber of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 1 10A@600V(A600), 2.5A@600V(Q600) 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	Power and control electronics			
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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 5 hp at 220/230 V rated value 5 hp at 460/480 V rated value 10 hp at 575/600 V rated value 15 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 contacts for auxiliary contacts number of NO contacts for auxiliary contacts 10 number of NO contacts for auxiliary contacts 11 number of NO contacts for auxiliary contacts 12 number of Stock auxiliary contacts 13 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 110 V 10	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 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 5 hp at 5 hp at 575/600 V rated value 10 hp at 575/600 V rated value 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 Auxillary contact number of NC contacts for auxilliary contacts number of NC contacts for auxilliary contacts number of total auxiliary contacts of contacts of contacts of contacts of contacts of contacts of total auxiliary contacts number of total auxiliary contacts of total auxiliary contacts of contact rating of auxiliary contacts of contact of contacts of contact rating of auxiliary contacts of contact	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 460/480 V rated value • at 675/600 V rated value • at 575/600 V rated value 10 hp • at 575/600 V rated value 15 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 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 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 FF-delay time 1 No 5 hp 5 hp 5 hp 5 hp 6	 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 480/480 V rated value • at 5 hp • at 480/480 V rated value • at 575/600 V rated value • 10 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 activate 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 AC at 60 Hz rated value	120 V		
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at 460/480 V rated value bat 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 operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum operating voltage at if (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 scontact 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 10 hp 15 hp 16 hp 16 hp 16 hp 16 NO 17 NA 18 NB 1	at 200/208 V rated value	5 hp		
• at 575/600 V rated value 15 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 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 6.5 VA apparent holding power of magnet coil at AC 6.5 VA operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms	at 220/230 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 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	10 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 Dolument 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 3 600 V	• at 575/600 V rated value	15 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 number of total auxiliary contacts maximum 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 10 000 000 10 000 000 10 000 000 10 000 00	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 10 000 000 10 000 000 10 000 000 10 000 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 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		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 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 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		10 000 000		
number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 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	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 OFF-delay time 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			

product function					
 overload protection 	on		Yes		
 test function 			Yes		
external reset			Yes		
reset function			Manual, auto	omatic and remote (with optional accessory)	
adjustment range of the	rmal overload trip unit		3.5 5		
	of auxiliary contacts of over		1		
number of NO contacts	of auxiliary contacts of ov	erload relay	1		
contact rating of auxiliar	ry contacts of overload rela	ay according to	5A@600VA	C (B600), 1A@250VDC (R300)	
Enclosure			_		
	MA rating of the enclosure	9	NEMA 3/3D	4/12 enclosure	
design of the housing	MA rating of the cholosure	<u> </u>		ertight for outdoor use	
Mounting/wiring			Dust- & wate	rugin for outdoor use	
			vertical		
mounting position			vertical	and the second the shall select	
fastening method				Inting and installation	
	ction for supply voltage line	e-side	Screw-type t		
tightening torque [lbf·in]				18 21 lbf·in	
AWG cables single or m				, 2x (14 8)	
temperature of the cond	ductor for supply maximum	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 t	erminals	
tightening torque [lbf·in]	for load-side outgoing fee	eder	18 21 lbf·i	n	
	nductor cross-sections for a seder single or multi-stran		2x (16 12)	, 2x (14 8)	
temperature of the cond maximum permissible	ductor for load-side outgoin	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 t	erminals	
tightening torque [lbf·in]	at magnet coil		7 10 lbf·in		
type of connectable con AWG cables single or m	nductor cross-sections of n	nagnet coil for	2x (16 12), 2x (14 8)		
temperature of the cond permissible	ductor 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 t	erminals	
tightening torque [lbf·in]	at contactor for auxiliary	contacts	7 10 lbf·in		
31	nductor cross-sections at cry contacts single or multi-		2x (20 16)	, 2x (18 14)	
temperature of the cond maximum permissible	ductor at contactor for auxi	iliary contacts	75 °C		
material of the conducto	or at contactor for auxiliary	contacts	CU		
type of electrical connections	ction at overload relay for	auxiliary	Screw-type	erminals	
tightening torque [lbf·in]	tightening torque [lbf-in] at overload relay for auxiliary contacts		7 10 lbf·in		
type of connectable con-	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 cond contacts maximum perm	ductor at overload relay for nissible	auxiliary	70 °C		
	material of the conductor at overload relay for auxiliary contacts		CU		
Short-circuit current rati					
	of the fuse link for short-circuit protection of the main		Class J		
•	design of the short-circuit trip		Thermal magnetic circuit breaker		
maximum short-circuit current breaking capacity (Icu)		simai ma	,		
• at 240 V		5 kA			
	• at 480 V		5 kA		
• at 600 V			5 kA		
certificate of suitability				UL 60947-4-1	
Approvals Certificates			OL 00041-4-		
General Product Ap-					
proval	Test Certificates	other	Envi	ronment	





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=3RE4122-5CA31-1FY0

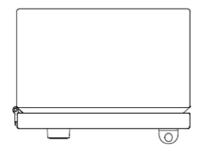
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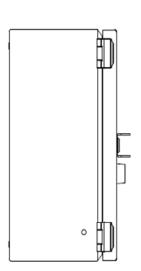
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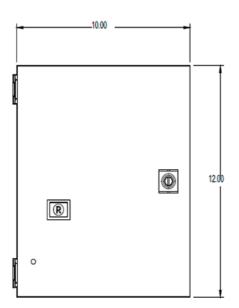
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-5CA31-1FY0&lang=en

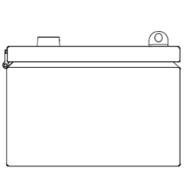
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-5CA31-1FY0/certificate









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