SIEMENS

Data sheet

3RE4122-8CA31-1GB0



STARTER, 3RE41228CA311GB0, WITH MODS

product designation special product feature Start-Stop Push Buttons 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 560 t country of origin Cermany Power and control solctronics number of poles for main current circuit yielded mechanical performance [hg] for 3-phase AC motor at 220/228 V rated value at 220/228 V rated value at 240/228 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 675/600 V rated value be at 475/600 V rated value at 675/600 V rated value be at 675/600 V rated value correcting of 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 exchanicals performance processes control supply voltage at 240/230 V rated value be at 375/600 V rated value be at 460/480 V rated value be at 460/480 V rated value be at 675/600 V rated value control value at 600 V 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 availiany contacts 1 number of NC contacts for auxiliany contacts 2 operating range factor control supply voltage rated value of magnet coil Coil Coil Coil Coil Coil Coil Coil C		
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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 Itupo of voltage or inctionality yielded mechanical performance [hp] for 3-phase AC motor • at 2200/230 V rated value • at 2200/230 V rated value • at 480/480 V rated value • at 480/480 V rated value • at 575/600 V rated value 25 hp • at 575/600 V rated value 7 operating voltage for main current circuit at AC at 60 Hz maximum 9 operating voltage at AC-3 rated value maximum 9 operating voltage at AC-3 rated value maximum 9 operating voltage at AC-3 rated value maximum 9 of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 2 operating of auxiliary contacts of auxiliary contacts 1 number of NC contacts for auxiliary contacts 2 operating of auxiliary contacts of auxiliary contacts 3 operating rate of total auxiliary contacts of contactor according to UL 2 operating range factor control supply voltage rated value of magnet coil at AC 3 operating range factor control supply voltage rated value of magnet coil at AC 3 operating range factor control supply voltage rated value of magnet coil at AC 3 operating range factor control supply voltage rated value of magnet coil at AC 3 operating range factor control supply voltage rated value of magnet coil at AC 4 4 6 ms	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 60 Hz rated value disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 475/5600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 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 if (operating cycles) of the main contacts stypical Auxiliary contact number of NC contacts for auxiliary contacts number of NC 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 pick-up power of magnet coil at AC operating range factor control supply voltage rated value of mapparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of mapparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of ON-delay time 8 40 ms	installation altitude [ft] at height above sea level maximum	6 560 ft
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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 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 Auxillary contact number of NC contacts for auxilliary contacts number of NC contacts for auxilliary contacts number of total auxiliary contacts maximum secontact rating of auxiliary contacts of contactor according to UL Coil 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	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 480/480 V rated value • at 460/480 V rated value • at 55/600 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 and the 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 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
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• 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 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 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	10 hp
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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
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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
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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	

e overload protection • test function • external reset • yes • orange of hermal overload tip unit • 4.5 6.3 • number of NC contacts of auxiliary contacts of overload relay contact rating of auxiliary contacts of overload relay contact rating of auxiliary contacts of overload relay according to U. • Enclosure • deegree of protection NEMA rating of the enclosure vertical statening method vertical surface mounting and installation vertical surface mounting and	
external reset exeternal reset reset function adjustment range of thermal overload trip unit unumber of NC contacts of auxiliary contacts of overload relay contact rating of auxiliary contacts design of the housing Mounting/wiring mounting position design of the housing Mounting/wiring mounting position dasterning method type of electrical connection for supply voltage line-side type of one-catable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply yape of electrical connection for load-side outgoing feeder type of connectable conductor for supply yape of electrical connection for load-side outgoing feeder stightening largue [libril ing to load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder material of the conductor at magnet coil type of electrical connection of auxiliary contacts single remaining torque [libril ing late outgoing feeder material of the conductor at magnet coil type of electrical connection of auxiliary contacts single remaining torque [libril ing late outgoing feeder advisible remaining torque [libril ing late outgoing feeder advised to the conduct	
reset function Manual, automatic and remote (with optional access adjustment range of thermal overload trip unit 4.5 6.3 number of NC contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay 1 contact rating of auxiliary contacts of overload relay 2 contact rating of auxiliary contacts of overload relay according to 1 U. Enclosure degree of protection NEMA rating of the enclosure NEMA 3/3R/4/12 enclosure Dust- & watertight for outdoor use Mounting/Wiring mounting position vertical statening method Surface mounting and installation Sype of electrical connection for supply voltage line-side Surface mounting and installation Sype of electrical connection for supply waximum permissible and single or multi-stranded temperature of the conductor for supply maximum permissible of conductor for supply pass of electrical connection for load-side outgoing feeder 18 21 lbf-in Sype of electrical connection for load-side outgoing feeder 18 21 lbf-in Sype of electrical connection for load-side outgoing feeder 18 21 lbf-in Sype of electrical connection for load-side outgoing feeder 18 21 lbf-in Sype of electrical connection for load-side outgoing feeder 18 21 lbf-in Sype of electrical connection for load-side outgoing feeder 18 21 lbf-in Sype of electrical connection for magnet coil Stranded temperature of the conductor for load-side outgoing feeder Maximum permissible and side outgoing feeder Sype of electrical connection of magnet coil Stranded temperature of the conductor for load-side outgoing feeder Sype of electrical connection of magnet coil Stranded Sype of electrical connection of magnet coil Sype of electrical connection of auxiliary contacts Sype of electrical connection of auxiliary contacts Sype of electrical connection of auxiliary contacts Sype of connectable conductor at magnet coil maximum permissible Sype of connectable conductor at contactor for auxiliary contacts Sype of connectable conductor at contactor for auxilia	
reset function adjustment range of thermal overload trip unit aumber of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay contact rating of auxiliary contacts degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position dastening method surface mounting and installation vertical stateman method vertical stateman method surface mounting and installation vertical surface mounting and installation vertical surface mounting an	
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number of NO contacts of auxiliary contacts of overload relay according to U.L. Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting viring mounting position fastening method type of electrical connection for supply voltage line-side temperature of the conductor for supply maximum permissible for old-side outgoing feeder flightening torque [lbf-in] for load-side outgoing feeder flightening torque [lbf-in] at magnet coil type of connectable conductor for supply type of connectable conductor of load-side outgoing feeder maximum permissible material of the conductor of load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder maximum permissible material of the conductor of load-side outgoing feeder maximum permissible material of the conductor at magnet coil material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conductor at overload relay for auxiliary contacts for 'C material of the conductor at overload relay for auxiliary contacts maximum permissible material of the conduct	
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Short-circuit current rating design of the fuse link for short-circuit protection of the main circuit required Class J	
design of the fuse link for short-circuit protection of the main circuit required	
circuit required	
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 Dangerous Good Environment	nent





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=3RE4122-8CA31-1GB0

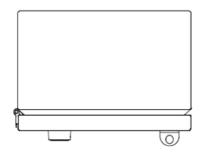
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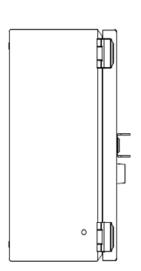
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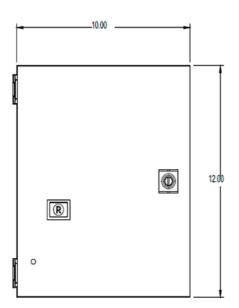
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-8CA31-1GB0&lang=en

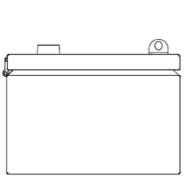
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-8CA31-1GB0/certificate









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