## **SIEMENS**

## **Data sheet**

3RE4122-4CA31-1GB0



STARTER, 3RE41224CA311GB0, WITH MODS

product designation special product feature Start-Stop Push Buttons  General technical data  weight [Ib] Height X Width X Depth [In] 15 lb Height X Width X Depth [In] 12 × 10 × 6 in touch protection against electrical shock NA for enclosed products installation altitude [fit] at height above sea level maximum 6 5690 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		
special product feature  General technical data  weight [Ib] 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 15 × 10 × 6 in 16 × 10 × 10 × 6 in 16 × 10 × 10 × 10 × 6 in 16 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	product brand name	Siemens
weight [Ib] 15 lb 16 lc 17 lc 18 lc	product designation	Non-reversing motor starter
weight [b] 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 10 x 10 x 6 in 15 x 10 x 10 x 10 x 10 x 6 in 15 x 10 x	special product feature	Start-Stop Push Buttons
Height x Wirdth x Depth [in]  touch protection against electrical shock Installation altitude [ft] at height above sea level maximum of official country of origin Germany  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 60 Hz rated value • at AC at 60 Hz rated value • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 450/480 V rated value • at 575/600 V rated value • at 675/600 V rated v	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 yielded mechanical performance [hp] for 3-phase AC motor • at 220/208 V rated value 3 hp • at 420/208 V rated value 3 hp • at 420/208 V rated value 3 hp • at 460/480 V rated value 3 hp • at 575/600 V rated value 10 hp  Contactor number of NO contacts for main contacts 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 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 3 number of NO contacts for auxiliary contacts 4 number of NO contacts for auxiliary contacts 6 NO contacts for auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL  Oil apparent pick-up power of magnet coil at AC 6 S VA 6 Operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms	weight [lb]	15 lb
installation altitude [ft] at height above sea level maximum country of origin  Power and control electronics number of poles for main current circuit 1/pe 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 3 hp at 200/208 V rated value 3 hp at 3575/600 V rated value 3 hp at 460/480 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 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 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  4 16 ms	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  • 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 375/600 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • at 300/208 V rated value  • at 300/208 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • at 600 V  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  10A@@@00V(A600), 2.5A@@00V(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  0  9 38 ms  OFF-delay time	touch protection against electrical shock	NA for enclosed products
number of poles for main current circuit  1 type of voltage of the control supply voltage  • 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 250/230 V rated value  • at 460/480 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • at 600 V	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 3 hp  at 220/230 V rated value 3 hp  at 250/500 V rated value 7.5 hp  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 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 4 number of NO contacts for auxiliary contacts 5 number of NO contacts for auxiliary contacts 6 NA apparent pick-up power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent pick-up power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 6 NA apparent holding power of magnet coil at AC 9 NA app	country of origin	Germany
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 [hp] for 3-phase AC motor  at 220/230 V rated value  3 hp  at 220/230 V rated value  3 hp  at 460/480 V rated value  7.5 hp  at 575/600 V rated value  10 hp  Contactor  number of NO contacts for main contacts  operating voltage at AC-3 rated value maximum  about the voltage at AC-3 rated value at AC at 60 Hz  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 apparent holding power	Power and control electronics	
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  3 hp  at 220/230 V rated value  3 hp  at 60/480 V rated value  7.5 hp  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  foo 0V  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 total auxiliary 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 oil  ON-delay time  9 38 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  at 220/230 V rated value  at 460/480 V rated value  at 575/600 V rated value  to hp  contactor  number of NO contacts for main contacts yical  Auxiliary contact number of NC contacts for auxiliary contacts typical  Auxiliary contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of stotal auxiliary contacts 1 number of total auxiliary contacts or contacts or auxiliary contacts 1 number of total auxiliary contacts or foothacts or auxiliary contacts 1 number of total auxiliary contacts or foothacts or auxiliary contacts 2 apparent pick-up power of magnet coil at AC 4 apparent holding power of magnet coil at AC 6 6 5 VA operating range factor control supply voltage rated value of magnet coil 0 NN-delay time 9 38 ms  100 V  1	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 220/230 V rated value  at 460/480 V rated value  at 575/600 V rated value  7.5 hp  at 575/600 V rated value  10 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  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 No operating range factor control supply voltage rated value of magnet coil  ON-delay time  4 16 ms	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 460/480 V rated value  • at 4575/600 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  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  4 16 ms	<ul> <li>at AC at 50 Hz rated value</li> </ul>	110 V
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 55/600 V rated value  • at 55/600 V rated value  • at 575/600 V rated value  • at 575/600 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  foou 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 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 460/480 V rated value at 575/600 V rated value  Tonumber 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  a 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  ON-delay time  4 16 ms	disconnector functionality	No
at 220/230 V rated value at 460/480 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 operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum  Maxiliary contact number of NC contacts for auxiliary contacts 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 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  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  accordance 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  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 magnet coil  ON-delay time  9 38 ms  OFF-delay time  4 16 ms	• at 200/208 V rated value	3 hp
• 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  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 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  OFF-delay time  4 16 ms	• at 460/480 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  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  OFF-delay time  3 000 00  1 00  1 00  4 00  0 0 0  1 0 0 0  0 0 0  0 0 0 0  1 0 0 0 0	• at 575/600 V rated value	10 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  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  OFF-delay time  600 V  30 000 000  10	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 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 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  30 000 000  1 000 000  1 000 000  1 000 000	· · · · · · · · · · · · · · · · · · ·	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  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  202  203  204  205  205  206  207  208  208  208  208  208  208  208	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  10A@600V(A600), 2.5A@600V(Q600)  20I  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 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 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  6.5 VA  0.8 1.1  9 38 ms  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         9 38 ms           ON-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	

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 reministry contacts single or multi-stranded     temperature of the conductor at magnet coil     type of electrical connection of auxiliary contacts     sype of connectable conductor at overload relay for auxiliary contacts     sype of connectable conductor at overload relay for auxiliary contacts	
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 sta	
adjustment range of thermal overload trip unit number of NC contacts of auxiliary contacts of overload relay 1 number of NC 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 U.  Enclosure  degree of protection NEMA rating of the enclosure	and announced by
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 of overload relay according to U.L.  Enclosure  degree of protection NEMA rating of the enclosure	lai accessory)
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 outer of auxiliary contacts  maximum permissible  material of the conductor at outer of auxiliary contacts  maximum permissible  material of the conductor at outer of auxiliary contacts  maximum permissible  material of the conductor at outer of auxiliary contacts  maximum permissible  material of the conductor at outer of auxiliary contacts  maximum permissible  material of the conductor at outer of auxiliary contacts  maximum permissible  material of the conductor at outer of auxili	
contact rating of auxiliary contacts of overload relay according to UL  Enclosure  degree of protection NEMA rating of the enclosure design of the housing  Dust- & watertight for outdoor use  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side giphening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWO cables single or multi-stranded temperature of the conductor for supply maximum permissible giphening torque [lbf-in] for load-side outgoing feeder type of electrical connection for load-side outgoing feeder giphening torque [lbf-in] for load-side outgoing feeder sightening torque [lbf-in] for load-side outgoing feeder lemperature of the conductor for supply maximum permissible giphening torque [lbf-in] for load-side outgoing feeder lemperature of the conductor for load-side outgoing feeder lemperature of the conductor for load-side outgoing feeder maximum permissible lemperature of the conductor for load-side outgoing feeder lemperature of the conductor for load-side outgoing feeder maximum permissible lemperature of the conductor for load-side outgoing feeder lemperature of the conductor for load-side outgoing feeder lemperature of the conductor of magnet coil legithening torque [lbf-in] at magnet coil lemperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil maximum permissible material of the conductor at oreal sections of magnet coil lemperature of the conductor at oreal sections of magnet coil lemperature of the conductor at contactor for auxiliary contacts lemperature of the conductor at contactor for auxiliary contacts lemperature of the conductor at contactor for auxiliary contacts lemperature of the conductor at contactor for auxiliary contacts lemperature of the conductor at contactor for auxiliary contacts lemperature of the con	
U. Enclosure  degree of protection NEMA rating of the enclosure  design of the housing  Mounting/wiring  mounting position fastening method  type of electrical connection for supply voltage line-side  tightening forque [lbf-in] for supply  ype of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor cross-sections at line-side for  AWG cables single or multi-stranded  temperature of the conductor for load-side outgoing feeder  CU  type of electrical connection of magnet coil  type of connectable conductor or assections of magnet coil for  AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum  permissible  material of the conductor at magnet coil maximum  permissible  material of the conductor at a magnet coil maximum  permissible  material of the conductor at a magnet coil maximum  permissible  material of the conductor at a magnet coil maximum  permissible  material of the conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  maximum permissible  material of the conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  province is a surface and a contactor for auxiliary contacts  province is a surface and a contactor for auxiliary contacts  province is a surface and a contac	
degree of protection NEMA rating of the enclosure  design of the housing    Dust & watertight for outdoor use   Mounting/wiring	9
Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible define and side outgoing feeder single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply maximum permissible for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible  for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible  for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible  for load-side outgoing feeder solve the conductor for load-side outgoing feeder define solve solve solve seed to solve solv	
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type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  type of connectable conductor ross-sections at overload relay for AWG cables for auxiliary contacts  type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at overload relay for auxiliary contacts  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  material of the conductor at overload relay for auxiliary contacts  Short-circuit current rating  design of the fuse link for short-circuit protection of the main circuit required  Screw-type terminals  CU  CU  CU  CU  Class J	
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type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  material of the conductor at overload relay for auxiliary contacts  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	
AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at contactor for auxiliary contacts maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  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  75 °C  CU  Screw-type terminals  7 10 lbf-in  2x (20 16), 2x (18 14)  70 °C  CU  CU  Class J	
maximum permissible  material of the conductor at contactor for auxiliary contacts  type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  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  CU  CU  Class J	
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contacts maximum permissible 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	
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=3RE4122-4CA31-1GB0

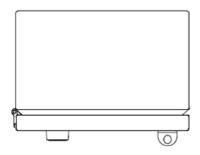
Search Datasheet in Service&Support (Manuals)

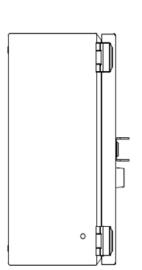
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-4CA31-1GB0/man

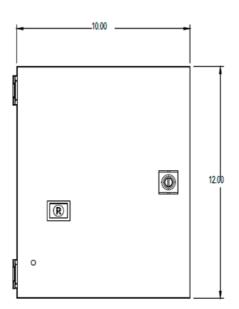
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-4CA31-1GB0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-4CA31-1GB0&lang=en</a>

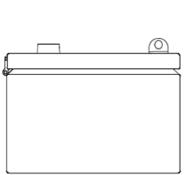
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-4CA31-1GB0/certificate









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