## **SIEMENS**

## **Data sheet**

3RE4122-8CA31-4CB0



STARTER, 3RE41228CA314CB0, 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 375/600 V rated value be at 475/600 V rated value be at 486/0480 V rated value be at 486/048		
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 [It] at height above sea level maximum country of origin Germany  Power and control electronics Inumber of poles for main current circuit 3 type of voltage of the control supply voltage at AC at 60 Hz rated value 110 V 110	product brand name	Siemens
Weight [Ib] 15 Ib Height x Width x Depth [in] 12 × 10 × 6 in touch protection against electrical shock NA for enclosed products installation altitude (fig 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 4  e at AC at 50 Hz rated value 110 V eat AC at 60 Hz rated value 120 V disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor 1 to hp e at 200/280 V rated value 25 hp e at 460/480 V rated value 25 hp e at 575/600 V rated value 25 hp e at 575/600 V rated value 25 hp maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value 400 V mechanical service life (operating cycles) of the main contacts 51 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contact 1 number of NO contacts for auxiliary contacts 1	product designation	Non-reversing motor starter
weight [ib] Height x Width x Depth [in] 12 x 10 x 6 in touch protection against electrical shock installation altitude [ft] at height above sea level maximum 6 550 ft country of origin  Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage et at AC at 50 Hz rated value 110 V st AC at 60 Hz rated value 120 V disconnector functionality yleided mechanical performance [hp] for 3-phase AC motor et 200/208 V rated value 10 hp et 202/230 V rated value 25 hp et 375/600 V rated value 25 hp Contactor number of NO contacts for main contacts operating voltage of the 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 NO contacts for auxiliary contacts 1 number of NO contacts fo	special product feature	Start-Stop Push Buttons
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    country of origin   Germany    Power and control electronics   Installation   Installation	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 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 200/208 V rated value 10 hp at 420/203 V rated value 10 hp at 420/203 V rated value 25 hp at 460/480 V rated value 25 hp at 575/600 V rated value 25 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 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 4 number of NO contacts for auxiliary contacts 5 number of NO contacts for auxiliary contacts 6 number of NO contacts for auxiliary contacts 7 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary co	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 10 hp  • at 250/230 V rated value 25 hp  • at 480/480 V rated value 25 hp  • at 575/600 V rated value 25 hp  contactor  number of NO contacts for main contacts 30 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 to NC contacts for auxiliary contacts 1  number of NC contacts for auxiliary contacts 1  number of to NC contacts for auxiliary contacts 1  number of to 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 79 VA  apparent holding power of magnet coil at AC 8.5 VA  operating range factor control supply voltage rated value of magnet coil and AC 8.5 VA  operating range factor control supply voltage rated value of magnet coil and AC 8.5 VA  ON-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  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
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 10 hp at 220/230 V rated value 10 hp at 220/230 V rated value 25 hp at 575/600 V rated value 25 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 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 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 number of NO contacts for auxiliary contacts 7 9 VA 6 apparent holding power of magnet coil at AC 7 9 VA 7 operating range factor control supply voltage rated value of magnet coil 8 40 ms 0 N-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 250/230 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • at 600 V   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 service life (operating cycles) of the main contacts  typical  Auxiliary contact  number of NO contacts for auxiliary contacts  1  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  8  s 40 ms  OFF-delay time	Power and control electronics	
control supply voltage  • 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 220/230 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • at 575/600 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  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 1 number of total auxiliary contacts 5 number of total auxiliary contacts 6 number of total 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  10 hp  at 220/230 V rated value  10 hp  at 460/480 V rated value  25 hp  at 575/600 V rated value  25 hp  contactor  number of NO contacts for main contacts yicial  Auxiliary contact  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 Stotal auxiliary contacts 1 number of total auxiliary contacts maximum 2 contact rating of auxiliary contacts of contactor according to UL  Coil  apparent pick-up power of magnet coil at AC 3 py VA 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  10 hp	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 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  so contact 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	
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 460/480 V rated value • at 575/600 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 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 NO contacts for auxiliary contacts number of total auxiliary contacts maximum socontact 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 FF-delay time  1 0 hp 10 hp	<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 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
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 25 hp  at 575/600 V rated value 25 hp  Contactor  number of NO contacts 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 et 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 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	disconnector functionality	No
at 220/230 V rated value at 460/480 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 operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum operating voltage of 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 accontact according to Uccontacts onumber of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum accontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contacts of contactor according to Uccontact rating of auxiliary contact rating of auxiliary contacts of contact rating of auxiliary contact rating of auxiliary c	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  number of NC contacts for auxiliary contacts  1  number of NC contacts for auxiliary contacts  1  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  8 40 ms  OFF-delay time  4 16 ms	• at 200/208 V rated value	10 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  8 40 ms  OFF-delay time	• at 220/230 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 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  8  contacts for main current circuit at AC at 60 Hz  600 V  600 V	• at 460/480 V rated value	25 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  Dola@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  OFF-delay time  4 16 ms	● at 575/600 V rated value	25 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	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 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  Auxiliary contacts of 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  600 V  30 000 000  10 0	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  0 30 000 000  1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		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  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  10A@600V(A600), 2.5A@600V(Q600)  79 VA  8.5 VA  0.8 1.1  0.8 1.1  8 40 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  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)  10A@600V(A600), 2.5A@600V(Q600)  10A@600V(A600), 2.5A@600V(Q600)  10A@600V(A600), 2.5A@600V(Q600)  10A@600V(A600), 2.5A@600V(Q600)  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 40 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         8 40 ms           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	

	ay 1 ing to 5A@600VAC (B600), 1A@250VDC (R300)  NEMA 3/3R/4/12 enclosure Dust- & watertight for outdoor use  vertical Surface mounting and installation Screw-type terminals 18 21 lbf-in 2x (16 12), 2x (14 8)  ble 60 °C CU Screw-type terminals 18 21 lbf-in les 2x (16 12), 2x (14 8)  60 °C CU Screw-type terminals 7 10 lbf-in
• test function • external reset  reset function adjustment range of thermal overload trip unit number of NC contacts of auxiliary contacts of overload rel number of NO contacts of auxiliary contacts of overload rel contact rating of auxiliary contacts of overload relay accord UL  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 torque [lbf-in] for supply type of connectable conductor cross-sections at line-side fa AWG cables single or multi-stranded temperature of the conductor for supply maximum permiss material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cat for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of electrical connection for auxiliary contacts type of electrical connection for auxiliary contacts type of connectable conductor at magnet coil maximum permissible material of the conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts	Yes Yes Manual, automatic and remote (with optional accessory)  17 22  ay 1 ay 1 sy 1 SA@600VAC (B600), 1A@250VDC (R300)  NEMA 3/3R/4/12 enclosure Dust- & watertight for outdoor use  vertical Surface mounting and installation Screw-type terminals 18 21 lbf-in 2x (16 12), 2x (14 8)  ble 60 °C CU Screw-type terminals 18 21 lbf-in les 2x (16 12), 2x (14 8)  60 °C CU Screw-type terminals 18 21 lbf-in 2x (16 12), 2x (14 8)  60 °C CU
external reset reset function adjustment range of thermal overload trip unit number of NC contacts of auxiliary contacts of overload rel number of NO contacts of auxiliary contacts of overload rel number of NO contacts of auxiliary contacts of overload rel contact rating of auxiliary contacts of overload relay accord UL  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 torque [lbf-in] for supply type of connectable conductor cross-sections at line-side fa AWG cables single or multi-stranded temperature of the conductor for supply maximum permiss material of the conductor for supply maximum permiss material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections for AWG cat for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of electrical connection for auxiliary contacts type of electrical connection for auxiliary contacts type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts	Yes  Manual, automatic and remote (with optional accessory)  17 22  ay 1  ay 1  ing to 5A@600VAC (B600), 1A@250VDC (R300)  NEMA 3/3R/4/12 enclosure  Dust- & watertight for outdoor use  vertical  Surface mounting and installation  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  ble 60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  CU  Screw-type terminals  7 10 lbf-in  2x (16 12), 2x (14 8)  75 °C  CU  CU
reset function adjustment range of thermal overload trip unit number of NC contacts of auxiliary contacts of overload rel number of NO contacts of auxiliary contacts of overload rel contact rating of auxiliary contacts of overload rel contact rating of auxiliary contacts of overload relay accord UL  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 torque [lbf-in] for supply type of connectable conductor cross-sections at line-side fa AWG cables single or multi-stranded temperature of the conductor for supply maximum permiss material of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections for AWG cab for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of celectrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts	Manual, automatic and remote (with optional accessory)  17 22  ay 1  ay 1  ing to 5A@600VAC (B600), 1A@250VDC (R300)  NEMA 3/3R/4/12 enclosure  Dust- & watertight for outdoor use  vertical  Surface mounting and installation  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  ble 60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  7 10 lbf-in  2x (16 12), 2x (14 8)  75 °C  CU  CU
adjustment range of thermal overload trip unit number of NC contacts of auxiliary contacts of overload reformation of NO contacts of auxiliary contacts of overload reformation of NO contacts of auxiliary contacts of overload reformation of NO contacts of overload relay according to the following of the enclosure design of the housing  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 faWG cables single or multi-stranded temperature of the conductor for supply maximum permiss material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections for AWG cat for load-side outgoing feeder type of connectable conductor cross-sections for AWG cat 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 type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor at magnet coil type of connectable conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts	17 22  ay 1  ay 1  ing to 5A@600VAC (B600), 1A@250VDC (R300)  NEMA 3/3R/4/12 enclosure  Dust- & watertight for outdoor use  vertical  Surface mounting and installation  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  ble 60 °C  CU  Screw-type terminals  18 21 lbf-in  les 2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  7 10 lbf-in  2x (16 12), 2x (14 8)  75 °C  CU
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material of the conductor for supply  type of electrical connection for load-side outgoing feeder  tightening torque [lbf-in] for load-side outgoing feeder  type of connectable conductor cross-sections for AWG cat for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder maximum permissible  material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil  tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of connectable conductor at contactor for auxiliary contacts  type of electrical connection 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  tightening torque [lbf-in] at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts	CU Screw-type terminals  18 21 lbf·in  les 2x (16 12), 2x (14 8)  60 °C  CU Screw-type terminals 7 10 lbf·in 2x (16 12), 2x (14 8)  75 °C  CU CU
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tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cab for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts	18 21 lbf-in  2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  7 10 lbf-in  2x (16 12), 2x (14 8)  75 °C  CU
type of connectable conductor cross-sections for AWG cab for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf·in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts type of electrical connection at overload relay for auxiliary contacts tightening torque [lbf·in] at overload relay for auxiliary contacts	2x (16 12), 2x (14 8)  60 °C  CU  Screw-type terminals  7 10 lbf·in  2x (16 12), 2x (14 8)  75 °C  CU
for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts temperature of the conductor at contactor for auxiliary contacts type of electrical connection 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 tightening torque [lbf-in] at overload relay for auxiliary contacts	60 °C  CU  Screw-type terminals  7 10 lbf-in  2x (16 12), 2x (14 8)  75 °C  CU
maximum permissible material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil tightening torque [lbf·in] at magnet coil type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf·in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary cont 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	CU Screw-type terminals 7 10 lbf-in 2x (16 12), 2x (14 8) 75 °C CU
type of electrical connection of magnet coil tightening torque [lbf-in] at magnet coil type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary cont 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	Screw-type terminals 7 10 lbf-in 2x (16 12), 2x (14 8) 75 °C CU
tightening torque [lbf-in] at magnet coil  type of connectable conductor cross-sections of magnet co AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf-in] at contactor for auxiliary contactor 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	7 10 lbf·in 2x (16 12), 2x (14 8) 75 °C CU
type of connectable conductor cross-sections of magnet of AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf·in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor 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	2x (16 12), 2x (14 8)  75 °C  CU
AWG cables single or multi-stranded  temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil  type of electrical connection for auxiliary contacts  tightening torque [lbf·in] at contactor for auxiliary contacts  type of connectable conductor cross-sections at contactor 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	75 °C
permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts tightening torque [lbf·in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contaximum 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	CU
type of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary cont 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	
tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary cont 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	Screw-type terminals
type of connectable conductor cross-sections at contactor AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary cont 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	
ÁWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary cont 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	7 10 lbf·in
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 electrical connection at overload relay for auxiliary contacts tightening torque [lbf-in] at overload relay for auxiliary contacts	
contacts tightening torque [lbf-in] at overload relay for auxiliary contacts	CU
	Screw-type terminals
type of connectable conductor cross-sections at overload r	
for AWG cables for auxiliary contacts single or multi-strand	ed
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	70 °C
material of the conductor at overload relay for auxiliary con	tacts CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the mai circuit required	Class J
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	





## 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=3RE4122-8CA31-4CB0

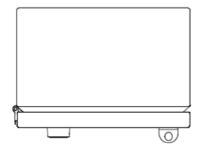
Search Datasheet in Service&Support (Manuals)

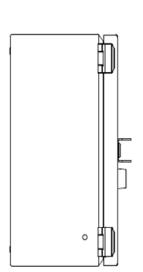
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-8CA31-4CB0/man

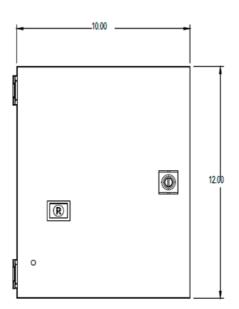
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-8CA31-4CB0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RE4122-8CA31-4CB0&lang=en</a>

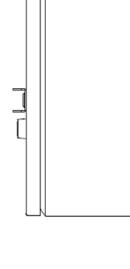
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-8CA31-4CB0/certificate

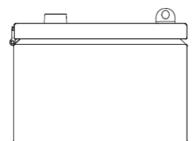








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last modified: 4/15/2021 ☑