## 3RA2220-4CF27-0AP0

**Data sheet** 



Load feeder fuseless, Reversing duty 400 V AC, Size S0 16...22 A 230 V AC Spring-type terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name	SIRIUS
product designation	Reversing starter
design of the product	for standard rail or screw mounting
product type designation	3RA22
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	3RT2027-2AP00
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2021-4CA20
<ul> <li>of the supplied RH assembly kit</li> </ul>	3RA2923-1BB2
<ul> <li>of the supplied link module</li> </ul>	3RA2921-2AA00
<ul> <li>of the supplied standard mounting rail adapter</li> </ul>	3RA2922-1AA00
General technical data	
size of the circuit-breaker	S0
size of load feeder	S0
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	5.8 W
without load current share typical	9.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
degree of protection NEMA rating	other
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of assignment	2
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	2.098 kg
Ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response value current of the current- dependent overload release	16 22 A
operating voltage	
• rated value	690 V

* IR AC-3 related value maximum	and AC 2 restanding the manifesture	600 V
Operational current	at AC 3 rated value maximum	690 V
Operational current		
* at AC-3 at 400 V rated value 22 A  at AC-3 at 400 V rated value 22 A  operating power  * at AC-3  — at 400 V rated value 11 000 W  * at AC-3  — at 400 V rated value 11 000 W  * at AC-3  — at 400 V rated value 230 V  Control circuit Control  Stype of votage of the control supply votage AC  - at 50 ter trade value 230 V  apparent holding power of magnet coil at AC 9.8 VA  * at 50 ter trade value 250 V  apparent holding power factor with the holding power of the coil 0.25  * at 50 ter 2 9.8 VA  Inductive power factor with the holding power of the coil 0.25  * at 50 ter 2 9.8 VA  Inductive power factor with the holding power of the coil 0.25  * at 50 ter 2 9.8 VA  Inductive power factor with the holding power of the coil 0.25  * at 50 ter 2 9.8 VA  * at 50 ter 2		50 60 Hz
ear ACSe at 400 V rated value   22 A	•	
operating power  ■ ## AC-3  — at 400 V rated value  ■ ## AC-3  — at 400 V rated value  ■ ## AC-3  — at 400 V rated value  ■ ## 11 000 W  Control circuit Control  Type of Voltage of the control supply voltage  AC  control supply voltage at AC  ■ ## 350 Hz rated value  ■ ## 350 Hz rated value  ## 350 V rated value  ## 350 V rated value  ## 350 V rated value  ## 370 Fp rated value  ## 370		
# at AC-3	at AC-3e at 400 V rated value	22 A
= at AC-36 = at 400 V rated value		
	• at AC-3	
— at 400 V rated value	— at 400 V rated value	11 000 W
Control circuit/ Centrol  Type of voltage of the control supply voltage  • at 50 Hz rated value  • at 50 Hz rated value  • at 50 Hz rated value  • at 50 Hz  • at 50 Hz  Inductive power factor with the holding power of the coil • at 50 Hz  • at 50 Hz  Inductive power factor with the holding power of the coil • at 50 Hz  • at 50 Hz  Ves  Auxillary circuit  Protective and monitoring functions  trip class  CLASS 10  design of the overload release  tresponse value current of instantaneous short-circuit trip unit  UUCSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 200 V rated value • at 600 V rated value • at 600 V rated value • at 200 V rated value • at 600 V rated value • at 200 V rated value • at 600 V rated value • at 200 V rated value • at 400 V according to IEC 60947 4-1 rated value  • at 400 V according to IEC 60947 4-1 rated value  installation mounting dimensions  vertical  fastaning method • On adapter for soew and snap-on mounting on 35 mm DIN rail  width • depth  vietth • op or grounded parts • for grounded parts • f	• at AC-3e	
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value apparent holding power of magnet coil at AC at 50 Hz supparent holding power of magnet coil at AC at 50 Hz supparent holding power of magnet coil at AC at 50 Hz supparent holding power of the coil at 50 Hz supparent holding power of the coi	— at 400 V rated value	11 000 W
control supply voltage at AC  • at 50 Hz rated value  apparent holding power of magnet coil at AC  • at 50 Hz rated value  apparent holding power of magnet coil at AC  • at 50 Hz rated value  • at 50 Hz rated value  Auxiliary circuit  product extension auxiliary ewitch  Protective and monitoring functions  trip class  design of the overload release  response value current of instantaneous short-circuit trip unit  1288 A  110 CLASS 10  design of the overload release  response value current of instantaneous short-circuit trip unit  1288 A  110 CLASS 10  design of the overload release  response value current of instantaneous short-circuit trip unit  1288 A  110 CLASS 10  design of the overload release  response value current of instantaneous short-circuit trip unit  128 A  110 CLASS 10  design of the overload release  response value current of value value  • at 800 V rated value  • for single-phase AC motor  • at 200 V rated value  • for 3-phase AC motor  • at 200 V rated value  • at 400 V rated value  15 hp  product function short circuit protection  gesign of the short-circuit trip  product function short circuit protection  yes  design of the short-circuit trip  general value  15 hp  15 hp  15 hp  15 hp  15 hp  16 hold value  17.5 hp  18 hp  19 hold value  1	Control circuit/ Control	
e at 50 Hz rated value	type of voltage of the control supply voltage	AC
apparent holding power of magnet coil at AC 9,8 VA 150 Hz 9,8 VA inductive power factor with the holding power of the coil 0,25 0,25 0,25 0,25 0,25 0,25 0,25 0,25	control supply voltage at AC	
### ### #### #########################	at 50 Hz rated value	230 V
Inductive power factor with the holding power of the coil	apparent holding power of magnet coil at AC	9.8 VA
Auxiliary circuit product extension auxiliary switch     Yes  Protective and mentoring functions  trip class     CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit  UICSA ratings  full-load current (FLA) for 3-phase AC motor     * at 460 V rated value     * at 800 V rated value     * at 800 V rated value     * at 800 V rated value     * at 110/120 V rated value     * at 110/120 V rated value     * at 230 V rated value     * of or single-phase AC motor     * at 230 V rated value     * of 3-phase AC motor     * at 20020 V rated value     * of 3-phase AC motor     * at 20020 V rated value     * of 3-phase AC motor     * at 20020 V rated value     * of supple-phase AC motor     * at 20020 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of value v	● at 50 Hz	9.8 VA
Auxiliary circuit product extension auxiliary switch     Yes  Protective and mentoring functions  trip class     CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit  UICSA ratings  full-load current (FLA) for 3-phase AC motor     * at 460 V rated value     * at 800 V rated value     * at 800 V rated value     * at 800 V rated value     * at 110/120 V rated value     * at 110/120 V rated value     * at 230 V rated value     * of or single-phase AC motor     * at 230 V rated value     * of 3-phase AC motor     * at 20020 V rated value     * of 3-phase AC motor     * at 20020 V rated value     * of 3-phase AC motor     * at 20020 V rated value     * of supple-phase AC motor     * at 20020 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * at 400 V rated value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of supple-phase AC motor     * of value value     * of value v	inductive power factor with the holding power of the coil	0.25
product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit  ULCSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 480 V rated value • 22 A  24 A  25 A  26 A  27 A  28 A  29 ielded mechanical performance (hp) • for single-phase AC motor — at 110/120 V rated value — 1230 V rated value — 3 hp  3 hp • for 3-phase AC motor — at 200/280 V rated value — 15 hp — at 200/280 V rated value — 3 hp — at 220/230 V rated value — 4 to 200/280 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 7.5 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp —	-	0.25
product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit  ULCSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 480 V rated value • 22 A  24 A  25 A  26 A  27 A  28 A  29 ielded mechanical performance (hp) • for single-phase AC motor — at 110/120 V rated value — 1230 V rated value — 3 hp  3 hp • for 3-phase AC motor — at 200/280 V rated value — 15 hp — at 200/280 V rated value — 3 hp — at 220/230 V rated value — 4 to 200/280 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 5 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 7.5 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp — at 460/480 V rated value — 6 hp —	Auxiliary circuit	
Irrip class CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit ULICSA ratings  Iffull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 1800 V rated value • for single-phase AC motor • at 1200 V rated value • for 3-phase AC motor • at 220 V rated value • for 3-phase AC motor • at 220 V rated value • for 3-phase AC motor • at 220 V rated value • for 3-phase AC motor • at 220 V rated value • for 3-phase AC motor • at 220 V rated value • for 3-phase AC motor • at 220 V rated value • 7.5 hp • at 450 V rated value • 7.5 hp • at 450 V rated value • 7.5 hp  Product function short circuit protection  gosphase AC motor  required short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value  15 hp  Installation/ mounting/ dimensions  mounting position  required spacing • for grounded parts • for live parts • backwards • Jackwards • Jack		Yes
trip class  design of the overload release response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 101/120 V rated value • at 110/120 V rated value • at 22 A  yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 7.5 hp — at 200/208 V rated value — at 400/480 V rated value — 7.5 hp		
design of the overload release response value current of instantaneous short-circuit trip unit ULCSA ratigs  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 22 A  • at 600 V rated value 22 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 3 hp  • for 3-phase AC motor  — at 200/208 V rated value 3 hp  • for 3-phase AC motor  — at 200/208 V rated value 3 hp  • for 3-phase AC motor  — at 200/208 V rated value 15 hp  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit trip  magnetic  conditional short-circuit current (lq) at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  featening method height 269 mm  width 90 mm  depth required spacing  • for grounded parts — backwards — backwards — upwards 50 mm  - the side — downwards - to rive parts — forwards - backwards —		CLASS 10
response value current of instantaneous short-circuit trip unit  UL/GSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • at 600 V rated value  • for single-phase AC motor  — at 110/120 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — to 5hp  Short-circuit protection  product function short circuit trip  conditional short-circuit trip  magnetic  conditional short-circuit trip  magnetic  conditional short-circuit trip  magnetic  conditional short-circuit trip  magnetic  conditional short-circuit trip  magnetic  conditional short-circuit trip  magnetic  conditional short-circuit current (6)  • at 400 V according to EC 60947-4-1 rated value  150 000 A  Installation short-circuit current (6)  • at 400 V according to EC 60947-4-1 rated value  150 000 A  Installation short-circuit response  mounting position  4 150 000 A  Installat	·	
Tull-load current (FLA) for 3-phase AC motor   at 480 V rated value   22 A		
full-load current (FLA) for 3-phase AC motor         at 480 V rated value         22 A           a t 600 V rated value         22 A           yielded mechanical performance [hp]         6 for single-phase AC motor           — at 10/120 V rated value         1.5 hp           — at 2300 V rated value         3 hp           • for 3-phase AC motor         7.5 hp           — at 220/230 V rated value         7.5 hp           — at 240/430 V rated value         15 hp           — at 460/430 V rated value         15 hp           — at 460/430 V rated value         15 hp           Short-circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (lq)         • at 400 V according to IEC 69947-4-1 rated value         150 000 A           Installation/ mounting/ dimensions         mounting position         vertical           fastening method         On adapter for screw and snap-on mounting on 35 mm DIN rall           height         269 mm           width         90 mm           depth         130 mm           required spacing         • for grounded parts           — forwards         32 mm           — backwards         0 mm           — downwards         10 mm		
• at 480 V rated value 22 A  • at 800 V rated value 22 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 3 hp  • for single-phase AC motor  — at 2200/208 V rated value 7.5 hp  — at 2200/230 V rated value 7.5 hp  — at 4200/230 V rated value 7.5 hp  — at 4200/230 V rated value 7.5 hp  — at 460/480 V rated value 7.5 hp  Short-circuit protection  product function short circuit protection Yes  design of the short-circuit trip  conditional short-circuit current (q)  • at 400 V according to IEC 60947-4-1 rated value 150 000 A  Installation/ mounting/ dimensions  mounting position vertical fastening method 0 nadapter for screw and snap-on mounting on 35 mm DIN rail height 269 mm  width 90 mm  depth 130 mm  required spacing  • for grounded parts — forwards — backwards — upwards — 50 mm  • for live parts — downwards • for live parts — forwards — at the side — downwards • for live parts — forwards — backwards — hackwards — hackwards — forwards — 50 mm  • for live parts — forwards — backwards — hackwards — hackwards — hackwards — forwards — 50 mm  • for live parts — forwards — Lackwards — hackwards — hackw	-	
• at 600 V rated value   22 A		22.4
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value 3 hp  • for 3-phase AC motor — at 220/228 V rated value — at 220/230 V rated value — at 420/320 V rated value — at 460/480 V rated value — 15 hp  Short-circuit protection  product function short circuit protection  product function short circuit trip magnetic conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value  150 000 A  Installation/ mounting/ dimensions  mounting position fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 269 mm width depth 130 mm  required spacing • for grounded parts — forwards — backwards — backwards — other is a sum of the phase of the phase — other is a sum of the phas		
• for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value 3 hp  • for 3-phase AC motor  — at 220/230 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 7.5 hp — at 460/480 V rated value 8		22 A
- at 110/120 V rated value		
- at 230 V rated value 3 hp  • for 3-phase AC motor  - at 200/208 V rated value 7.5 hp  - at 420/230 V rated value 7.5 hp  - at 460/480 V rated value 15 hp  Short-circuit protection  product function short circuit protection Yes design of the short-circuit current (lq)  • at 400 V according to IEC 60947-4-1 rated value 150 000 A  Installation/ mounting/ dimensions  mounting position vertical 269 mm width 90 mm depth 130 mm  required spacing  • for grounded parts  - forwards 32 mm  - at the side 10 mm  • for live parts  • for live parts  - forwards 32 mm  - forwards 50 mm  • for live parts  - forwards 32 mm  - downwards 10 mm  • for live parts  - forwards 32 mm  - forwards 50 mm  • for live parts  - forwards 32 mm  - forwards 50 mm  • for live parts  - forwards 32 mm  - forwards 50 mm  - backwards 0 mm  • for live parts  - forwards 32 mm  - forwards 32 mm  - downwards 10 mm  • for live parts  - forwards 32 mm  - forwards 32 mm  - downwards 10 mm  • for live parts  - forwards 32 mm  - backwards 0 mm  • for live parts  - forwards 32 mm  - backwards 0 mm  • for live parts  - forwards 32 mm  - backwards 0 mm		
• for 3-phase AC motor  — at 220/208 V rated value — at 220/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip conditional short-circuit current (tq)  • at 400 V according to IEC 60947-4-1 rated value  Installation mounting/ dimensions  mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 269 mm  width depth 130 mm  required spacing  • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — obackwards — forwards — of rorwards — of rorwards — at the side — downwards • for live parts — forwards — forwards — forwards — of rorwards — forwards — of rorwards — of ror		
- at 200/208 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 220/230 V rated value 15 hp  Short-circuit protection  product function short circuit protection Yes design of the short-circuit trip magnetic  conditional short-circuit current (Iq) • at 400 V according to IEC 60347-4-1 rated value 150 000 A  Installation/ mounting/ dimensions  mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 269 mm  width 90 mm  depth 130 mm  required spacing  • for grounded parts  - forwards 32 mm  - backwards 0 mm  - at the side 10 mm  - downwards 10 mm  • for live parts  - forwards 32 mm  - forwards 10 mm  • for live parts  - forwards 32 mm  - downwards 10 mm  • for live parts  - forwards 32 mm  - forwards 10 mm  • for live parts  - forwards 32 mm  - downwards 10 mm  • for live parts  - forwards 32 mm  - backwards 0 mm		3 hp
- at 220/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp  Short-circuit protection  product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A  Installation/ mounting/ dimensions  mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 269 mm width 90 mm  depth 130 mm  required spacing • for grounded parts - forwards - backwards - upwards - at the side - downwards - of oriving parts - forwards - for live parts - forwards - backwards - backwards - for live parts - forwards - backwards - backwards - backwards - for live parts - forwards - backwards - backwards - backwards - of mm - obackwards - of mm	• for 3-phase AC motor	
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  vertical  height  depth  required spacing  of or grounded parts  — forwards — at the side — downwards  of roll ve parts — forwards — of or live parts — forwards — obackwards — for live parts — forwards — backwards — forwards — obackwards — of or live parts — forwards — backwards — forwards — obackwards — of or live parts — forwards — backwards — obackwards — obackwards — omm  of roll very parts — forwards — backwards — omm  of roll very parts — forwards — backwards — omm  of roll very parts — forwards — backwards — omm — omm  omm  omm  omm  omm  omm  o		
Short-circuit protection   Yes	— at 220/230 V rated value	7.5 hp
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	— at 460/480 V rated value	15 hp
design of the short-circuit trip conditional short-circuit current (lq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 269 mm width 90 mm depth 130 mm  required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — backwards — backwards — to mm  • for live parts — forwards — backwards — backwards — to mm  • for mm  • for live parts — forwards — backwards — backwards — upwards — to mm  • for live parts — forwards — backwards — backwards — upwards — to mm  • for live parts — forwards — backwards — upwards — backwards — upwards — upwards — upwards — backwards — upwards — upwards — upwards — to mm  • for live parts — forwards — backwards — upwards — upwards — to mm  • for live parts — forwards — upwards — backwards — upwards — to mm  • for live parts — forwards — upwards — to mm  • for live parts — forwards — upwards — to mm  • for live parts — forwards — upwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — fo	Short-circuit protection	
conditional short-circuit current (lq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  269 mm  width  90 mm  depth  130 mm  required spacing  • for grounded parts  — forwards — backwards — at the side — downwards • for live parts — forwards — forwards • for live parts — forwards — backwards — backwards — to mm  • for live parts — forwards — backwards — backwards — backwards — o mm  • for live parts — forwards — backwards — backwards — backwards — o mm  • for live parts — forwards — backwards — backwards — backwards — backwards — to mm  • for mm  • for mm  • for live parts — backwards — backwards — backwards — backwards — upwards  • 50 mm	product function short circuit protection	Yes
• at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  269 mm  width  90 mm  depth  130 mm  required spacing  • for grounded parts  — forwards — backwards — upwards  • for live parts — forwards — backwards — backwards — backwards — of ownwards • for live parts — forwards — backwards — backwards — backwards — to mm  • for live parts — forwards — backwards — backwards — backwards — to mm  • for live parts — forwards — backwards — upwards  50 mm	design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions       mounting position     vertical       fastening method     On adapter for screw and snap-on mounting on 35 mm DIN rail       height     269 mm       width     90 mm       depth     130 mm       required spacing       • for grounded parts     32 mm       - backwards     0 mm       - upwards     50 mm       - at the side     10 mm       - downwards     10 mm       • for live parts     32 mm       - backwards     0 mm       - backwards     0 mm       - upwards     50 mm	conditional short-circuit current (Iq)	
Installation/ mounting/ dimensions       mounting position     vertical       fastening method     On adapter for screw and snap-on mounting on 35 mm DIN rail       height     269 mm       width     90 mm       depth     130 mm       required spacing       • for grounded parts     32 mm       - backwards     0 mm       - upwards     50 mm       - at the side     10 mm       - downwards     10 mm       • for live parts     32 mm       - backwards     0 mm       - backwards     0 mm       - upwards     50 mm	<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	150 000 A
mounting position     vertical       fastening method     On adapter for screw and snap-on mounting on 35 mm DIN rail       height     269 mm       width     90 mm       depth     130 mm       required spacing     • for grounded parts       — forwards     32 mm       — backwards     0 mm       — upwards     50 mm       — at the side     10 mm       — downwards     10 mm       • for live parts     32 mm       — backwards     0 mm       — backwards     0 mm       — upwards     50 mm		
fastening method  height  269 mm  width  90 mm  depth  130 mm  required spacing  • for grounded parts  — forwards — backwards — at the side — downwards  • for live parts  — forwards — backwards — backwards — upwards  • for live parts — forwards — backwards — upwards — backwards — to mm  • for live parts — forwards — backwards — upwards  • o mm  • for live parts — forwards — backwards — upwards  50 mm		vertical
height         269 mm           width         90 mm           depth         130 mm           required spacing		
width         90 mm           depth         130 mm           required spacing         **           • for grounded parts         32 mm           — forwards         0 mm           — upwards         50 mm           — at the side         10 mm           — downwards         10 mm           • for live parts         32 mm           — backwards         0 mm           — upwards         50 mm		
depth         130 mm           required spacing         • for grounded parts           — forwards         32 mm           — backwards         0 mm           — upwards         50 mm           — at the side         10 mm           — downwards         10 mm           • for live parts         32 mm           — backwards         0 mm           — upwards         50 mm		
required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — backwards  — upwards  50 mm  10 mm  • for live parts  — forwards  — backwards  — backwards  — upwards  50 mm		
<ul> <li>◆ for grounded parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>◆ for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— backwards</li> <li>— upwards</li> <li>50 mm</li> </ul>	·	
— forwards       32 mm         — backwards       0 mm         — upwards       50 mm         — at the side       10 mm         — downwards       10 mm         • for live parts       32 mm         — backwards       0 mm         — upwards       50 mm		
— backwards       0 mm         — upwards       50 mm         — at the side       10 mm         — downwards       10 mm         • for live parts       - forwards         — backwards       0 mm         — upwards       50 mm		32 mm
<ul> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>50 mm</li> <li>50 mm</li> </ul>		
<ul> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>10 mm</li> <li>32 mm</li> <li>0 mm</li> <li>50 mm</li> </ul>		
<ul> <li>— downwards</li> <li>for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>50 mm</li> </ul>	·	
<ul> <li>for live parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>50 mm</li> </ul>		
— forwards       32 mm         — backwards       0 mm         — upwards       50 mm		IU IIIIII
<ul><li>backwards</li><li>upwards</li><li>0 mm</li><li>50 mm</li></ul>	·	20
— upwards 50 mm		
— downwards 10 mm	·	
	— downwards	10 mm

— at the side	10 mm	
Connections/ Terminals		
type of electrical connection		
• for main current circuit	spring-loaded terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
Safety related data		
product function suitable for safety function	Yes	
Electrical Safety		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
protocol is supported		
<ul> <li>PROFINET IO protocol</li> </ul>	No	
PROFIsafe protocol	No	
protocol is supported AS-Interface protocol	No	
Approvals Certificates		
Ganaral Product Approval		For use in hazard-



**General Product Approval** 



Confirmation







ous locations

**Test Certificates** 

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping







Confirmation

other

Special Test Certificate

Railway

Environmental Confirmations

**Environment** 

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2220-4CF27-0AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4CF27-0AP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4CF27-0AP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

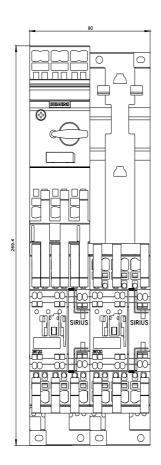
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2220-4CF27-0AP0&lang=en

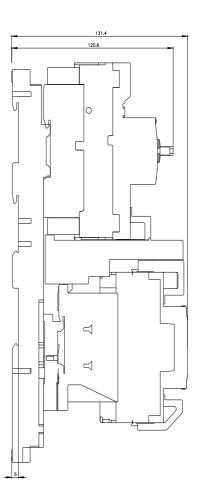
Characteristic: Tripping characteristics, I²t, Let-through current

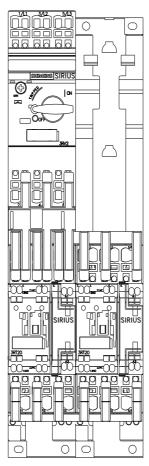
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4CF27-0AP0/char

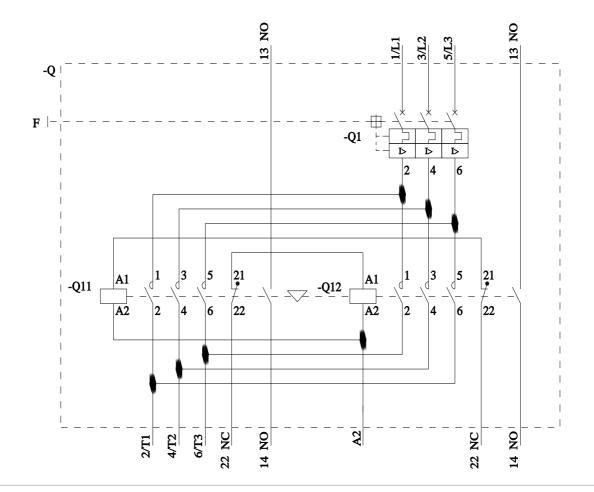
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4CF27-0AP0&objecttype=14&gridview=view1









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