## Data sheet 3RA2220-1EB23-0AP6



Fuseless motor starter Reversing operation 600VAC Size S0 2.8-4A 220/240VAC 50/60HZ screw connection For 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	, and the second
of the supplied contactor	3RT2023-1AP60
of the supplied circuit-breakers	3RV2011-1EA10
<ul> <li>of the supplied RH assembly kit</li> </ul>	3RA2923-1BB1
<ul> <li>of the supplied busbar adapter</li> </ul>	3RA2922-1AA00
<ul> <li>of the supplied link module</li> </ul>	3RA2921-1AA00
<ul> <li>of the supplied standard mounting rail adapter</li> </ul>	3RA2922-1AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
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
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-55 +80 °C
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	2.8 4 A
operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	3.6 A
operating power at AC-3	
• at 400 V rated value	1 500 W
at 500 V rated value	2 200 W
Control circuit/ Control	

control apply voltage at AC  * 15 OHz rated value  * 15 OHz rated		
a til 60 Hz rated value b 106 Hz rated value c 107 Hz v v v v v v v v v v v v v v v v v v	control supply voltage at AC	
and to Hz metel value apparent holding power of magnet coll at AC page and the provided power of magnet coll at AC page and the provided power factor with the holding power of the coll Auxiliary vircuit  number of NC contacts for auxiliary contacts 2 protective and monitoring functions trip class design of the overload release suppose value current of instantaneous short-focult trip unit  100-024 ratifiers  101-024 ratifiers  101-024 ratifiers  101-025 ratifiers  1025 ratifiers  102		
e at 60 Hz meter value	at 50 Hz rated value	
apparent holding power of magnet coil at AC	• at 60 Hz rated value	
Inductive power factor with the holding power of the coll Auxiliary circuit Inumber of NC contacts for auxiliary contacts 2 Inumber of NO contacts for auxiliary contacts 2 Protective and monitoring functions Irip class CLASS 10 design of the overhoad release Irisp class CLASS 10 design of the overhoad release Irisp class Intition of the common thoring functions Irip class Intition of the common thoring functions Irip class Intition of the parts Intition of t		
Auxilitary clarabit number of NC contacts for auxiliary contacts 2 protective and monitoring functions trip class design of the overload release response value carrier of instantaneous short-circuit trip unit 52 A  UCIOSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value — at 10120 V field value — at 200230 V rated value — at 404480 V rated value — at 200230 V rated value — at 404480 V rated value — at 200230 V rated value — at 4000 V socretive protection product function short circuit protection design of the short-circuit trip magnetic conditional short-circuit trip magnetic mounting position fastening method height — at 4000 V according bit EC 60947-41 rated value — backwards — on minimal protection		
number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 2  Protective and monitoring functions trip class CLASS 10 design of the overload release thermal (kinetallic) technology and the control of instantaneous short-circuit trip unit ULCSA ratings  full-load current (FLA) for 3-phase AC motor at 80 V rated value 3,95 A 4  4 A Vyloided mechanical performance (hp) 4  • of a single-phase AC motor — at 1101/120 V rated value 0,33 hp 4  • of a single-phase AC motor — at 200/280 V rated value 0,33 hp 4  • of a single-phase AC motor — at 200/280 V rated value 0,33 hp 4  • of a single-phase AC motor — at 200/280 V rated value 0,75 hp 4  — at 220/230 V rated value 0,75 hp 4  — at 220/230 V rated value 0,75 hp 4  — at 220/230 V rated value 2 hp 4  — at 480-480 V rated value 2 hp 4  Short-circuit protection Ves design of the short-circuit trip magnetic conditional short-circuit circuit trip magnetic conditional short-circuit circuit trip magnetic circuit trip magnet		0.28
Trochactive and monitoring functions		
Protective and monitoring functions  trip class 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 480 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • or 3 shape phase AC motor  — at 1101/20 V rated value • or 3 shape phase AC motor  — at 1101/20 V rated value • or 3 shape phase AC motor  — at 200/208 V rated value • or 3 shape phase AC motor  — at 200/208 V rated value • or 3 shape phase AC motor  — at 200/208 V rated value • or 5 shape phase AC motor  — at 200/208 V rated value • or 5 shape — at 460/480 V rated value • at 500/208 V rated va		
trip class design of the overload release tresponse value current of instantaneous short-circuit trip unit ULCSA ratings TULICSA ratings TULIO-AC variency 10LI-OAC current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 230 V rated value • at 220 V rated value • at 250 V rated value • at 480-480 V rated value  • at 400 V according to IEC 60947 4-1 rated value  first value value value value • at 400 V according to IEC 60947 4-1 rated value  first value value value value • at 400 V according to IEC 60947 4-1 rated value  first value value value value  value value value value value • at 400 V according to IEC 60947 4-1 rated value  first value value value value  as appear first value  value value value value value  as appear first value  value value value value  as appear first value  value value value value  value value value value  as appear first value  value value value value  value value value value  value value value value  value value value value value  value value value value  value value value value value  value value value value value  value value value value value  value value value value value  value value value value value  value value value value value  value value value value value  value value value value value value  value value value value value  value value value value value  value value value value value  value value value value value  value value value value  value value value value  value value valu		2
design of the overload release response value current of instantaneous short-circuit trip unit UCSA ratings  full-load current (FLA) for 3-phase AC motor  at 800 V rated value  at 800 V rated value  at 800 V rated value  - at 2002 V rated value  - at 200208 V rated value  - at 96040 V rated value  - at 96040 V rated value  - at 976600 V rated value  -		
response value current of instantaneous short-circuit trip unit  ULICSA ratings  (Tull-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 480 V rated value  • at 480 V rated value  — at 230 V rated value  — at 230 V rated value  — at 220 V rated value  — at 220 V rated value  — of 3-7 phase AC motor  — at 101/20 V rated value  — of 3-7 phase AC motor  — at 200/208 V rated value  — at 220230 V rated value  — at 220230 V rated value  — at 270230 V rated value  — at 27030 V rated value  — at 575/600 V rated value  — at 400 V according to 100 V rated value  (To the phase AC motor  product function short circuit protection  yes  design of the short-circuit current ((a)  • at 400 V according to 100 C 6047-41 rated value  153 000 A  Installation munting dimensions  mounting position  vertical  fastening method  height  vidth  90 mm  depth  required spacing  • for grounded parts  — forwards  — upwards  — at the side  — backwards  — upwards  — at the side  — downwards  — the side  — forwards  — the side  — downwards  — the side  — downwards  — the side  — the sid	<u> </u>	
Tull-add current (FLA) for 3-phase AC motor  at 480 V rated value  4 A  yleided mechanical performance (tp)  • for single-phase AC motor  — at 101/20 V rated value  0.13 hp  at 20/20 V rated value  0.33 hp  • for 3-phase AC motor  — at 20/2030 V rated value  0.75 hp  — at 20/2030 V rated value  0.75 hp  — at 480/480 V rated value  — at 75/800 V rated value  153 000 A  Installation incounting dimensions  mounting position  fastering method  height  255 mm  depth  120 mm  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  — ownwards  — ownward		
full-load current (FLA) for 3-phase AC motor  at 460 V rated value  3.95 A  4 A  4 A  4 yielded mechanical performance (Ptp)  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value — at 230 V rated value — at 2002/208 V rated value — at 2002/208 V rated value — at 2002/209 V rated value — at 275/600 V rated value — at 375/600 V rated value — at 400 V according to IEC 60947-41 rated value  • at 400 V according to IEC 60947-41 rated value  • at 400 V according to IEC 60947-41 rated value  • at 400 V according to IEC 60947-41 rated value  • at 400 V according to IEC 60947-41 rated value  • at 500 M  **retical function short circuit protection  be at 400 V according to IEC 60947-41 rated value  • at 200 V according to IEC 60947-41 rated value  • at 400 V according to IEC 60947-41 rated value  • at 400 V according to IEC 60947-41 rated value  • at 200 V according to IEC 60	<u> </u>	52 A
* at 480 V rated value		
• at 800 V rated value   4 A		0.05 A
yielded mechanical performance (hp)  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 200/208 V rated value — at 40/480 V rated value — at 675/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit current (tq) — at 40 V according to IEC 60947-4-1 rated value  153 000 A  Installation mounting dimensions  mounting position  fastening method snap-on fastening on 35 mm DIN rail height — 265 mm  width — 90 mm  depth — 120 mm  required spacing — 6 or grounded parts — forwards — beckwards — upwards — at the side — downwards — 10 mm — or live parts — forwards — bockwards — 10 mm — or live parts — forwards — bockwards — 10 mm — or live parts — forwards — upwards — 30 mm — at the side — downwards — 10 mm — or live parts — forwards — to mm — ownwards — 10 mm — or live parts — forwards — to mm — upwards — 30 mm — at the side — downwards — 10 mm — or live parts — forwards — to mm — at the side — downwards — 10 mm — at the side — ownwards — 10 mm — or live parts — forwards — to mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 10 mm — at the side — ownwards — 11 mm², 2x (2.5 6 mm²)  stranded with over end processing Safety related data  BHO value with high demand rate according to SN 31920 — 1 000 000 — proportion of dangerous failures with high demand rate — 73 %.		
• for single-phase AC motor  — at 1101/20 V rated value — at 230 V rated value — at 230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  Short-circuit protection  Product function short circuit protection  Gesign of the short-circuit current (rg) • at 400 V according to IEC 69047-4-1 rated value  Its 3000 A  Installator mounting dimensions  mounting position  fastening method — snap-on fastening on 35 mm DIN rail Height — 256 mm — dopth — required spacing  • for grounded parts — forwards — backwards — backwards — ounwards — the side — downwards — ownwards — ownward		4 A
• for 3-phase AC motor  • at 200/208 V rated value • for 3-phase AC motor  — at 200/230 V rated value — at 220/230 V rated value — at 575/600 V rated value  Province Short-circuit protection  product function short circuit trip magnetic conditional short-circuit current (fq) • at 400 V according to IEC 60947-4-1 rated value  Installation/mounting/ dimensions  mounting position  wounting position  province Short mounting/ dimensions  mounting position  province Short mounting/ dimensions  mounting position  province Short mounting/ dimensions  mounting position  po mm  depth  required spacing  • for grounded parts — fornwards — backwards — omm — obackwards — omm — odownwards — of mm — odownwards — of rive parts — fornwards — on mm — obackwards — omm — on mm — obackwards — omm — odownwards — of mm — odownwards — of mm — odownwards — of mm — at the side — of mm — at the side — of mm — at the side — of mm  ype of electrical connection for main current circuit — serve-ype terminals  type of onnectable conductor cross-sections for main contacts finely stranded with rore end processing  Safety related data  B10 value with high demand rate according to SN 31920 — 1 000 000  proportion of dangerous failures with high demand rate — 73 %	<b>5</b> .	0.12 hp
• for 3-phase AC motor		·
at 200/208 V rated value		0.00 πρ
- at 220/230 V rated value 2 hp  - at 460/480 V rated value 2 hp  3 hp  Short-circuit protection	·	0.75 hp
- at 460/480 V rated value 3 hp  - at 575/600 V rated value 3 hp  Short-circuit protection  product function short circuit protection Yes design of the short-circuit trip magnetic  conditional short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value  153 000 A  Installation/ mounting/ dimensions  mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm  width 90 mm  fequired spacing • for grounded parts - forwards 0 mm - at the side 9 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm  • for live parts - forwards 10 mm		·
- at 575/600 V rated value 3 hp  Short-circuit protection  product function short circuit protection  design of the short-circuit trip magnetic  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value 153 000 A  Installation mounting dimensions  mounting position vertical  fastening method snap-on fastening on 35 mm DIN rail  height 265 mm  width 99 mm  depth 120 mm  required spacing  • for grounded parts  — forwards 10 mm  — backwards 0 mm  — at the side 9 mm  — downwards 10 mm  • for live parts  — forwards 10 mm  • for live parts  — forwards 10 mm  — at the side 9 mm  — downwards 30 mm  — at the side 9 mm  So mm  — at the side 9 mm  — at the side 9 mm  So mm  — at the side 9 mm  Connections/ Terminals  type of connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 1000 000  proportion of dangerous failures with high demand rate 73 %		·
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method snap-on fastening on 35 mm DIN rail height depth 265 mm width 90 mm depth required spacing • for grounded parts — forwards — upwards — backwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards • for live parts — forwards — onwards — upwards — backwards — upwards — 30 mm • for live parts — forwards — onwards — upwards — backwards — upwards — onwards — 10 mm • for live parts — forwards — upwards — onwards — upwards — backwards — upwards — onwards — upwards — onmencetable connection for main current circuit type of connectable connection for main current circuit type of connectable connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-sections for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous fallures with high demand rate  73 %		
design of the short-circuit trip conditional short-circuit trip • 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  mounting position fastening method height 265 mm width 90 mm  depth 120 mm  required spacing • for grounded parls — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards • of or live parts — forwards • of or live parts — downwards — upwards — abackwards — upwards • for live parts — forwards — to mm • of or live parts — forwards — upwards — abackwards — upwards • of mm • of live parts — forwards — to mm • of or live parts — forwards — upwards — abackwards — upwards — abackwards — ownwards — to mm • of live parts — forwards — to mm • of or live parts — forwards — to mm • of live parts — forwards — to mm • one connections for main current circuit type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-sections for main contacts stranded connectable conductor cross-sections for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous fallures with high demand rate  73 %		3116
design of the short-circuit turip conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method height 265 mm  width 90 mm  depth required spacing  • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — townwards — backwards — townwards — to mm  • for live parts — forwards — backwards — upwards — at the side — downwards — to mm  • for live parts — forwards — backwards — upwards — backwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — backwards — upwards — backwards — backwards — to mm  • for live parts — forwards — to mm  • for live parts — forwards — to mm  • for live parts — to mm  • for live parts — to mm  • for live parts — to mm  • for min contacts — to mm  • type of electrical connection for main current circuit  type of electrical connection for main current circuit  type of electrical connection for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %		Yes
conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  265 mm  width  40pth  120 mm  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — for live parts — for live parts — forwards — upwards — backwards — upwards — 30 mm  • for live parts — forwards — lownwards — upwards — backwards — onmentations — upwards — at the side — downwards — to mm  • for live parts — forwards — backwards — upwards — a backwards — onmentations — upwards — backwards — onmentations — upwards — onmentations — upwards — backwards — onmentations — upwards — onmentations — the side — onmentations — at the side — onmentations		
* at 400 V according to IEC 60947-4-1 rated value     Installation/ mounting/ dimensions     mounting position		
mounting position fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing • for grounded parts — forwards — upwards — at the side — downwards • for live parts — for wards — to rowards  • for live parts — to rowards — upwards — at the side — downwards • for live parts — forwards — upwards — to rowards — upwards — backwards — o mm • for live parts — forwards — upwards — at the side — upwards — upwards — backwards — upwards — backwards — upwards — upwards — at the side — o mm  Connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %	· ·	153 000 A
mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing  • for grounded parts  — forwards 10 mm — upwards 30 mm — at the side 9 mm — downwards 10 mm  • for live parts  — forwards 0 mm  — backwards 0 mm  — at me side 9 mm  — townwards 10 mm  • for live parts  — forwards 0 mm  — backwards 0 mm  — backwards 0 mm  — townwards 10 mm  — backwards 0 mm  — connections for main current circuit screw-type terminals type of electrical connection for main current circuit stranded  connectable conductor cross-section for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %		
height width 90 mm  depth 120 mm  required spacing  • for grounded parts  — forwards 10 mm  — backwards 0 mm  — at the side 9 mm  — downwards 10 mm  • for live parts  — forwards 10 mm  — abockwards 0 mm  — at the side 9 mm  10 mm  • for live parts  — forwards 10 mm  — backwards 0 mm  — backwards 10 mm  — backwards 10 mm  — backwards 9 mm  Connections/ Terminals  type of connectable conductor cross-section for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %	mounting position	vertical
width 90 mm  depth 120 mm  required spacing  • for grounded parts  — forwards 10 mm  — backwards 0 mm  — upwards 30 mm  — at the side 9 mm  — downwards 10 mm  • for live parts  — forwards 0 mm  — upwards 30 mm  • at the side 9 mm  — downwards 10 mm  • for live parts  — forwards 0 mm  — upwards 30 mm  — upwards 30 mm  — downwards 10 mm  — at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections for main contacts fixed 1 10 mm², 2x (2.5 6 mm²)  Safety related data  B10 value with high demand rate according to SN 31920 1000 000  proportion of dangerous failures with high demand rate 73 %	fastening method	snap-on fastening on 35 mm DIN rail
depth       required spacing       • for grounded parts       — forwards     10 mm       — backwards     0 mm       — upwards     30 mm       — at the side     9 mm       — downwards     10 mm       • for live parts     0 mm       — backwards     0 mm       — upwards     30 mm       — downwards     10 mm       — at the side     9 mm       Connections/ Terminals       type of electrical connection for main current circuit     screw-type terminals       type of connectable conductor cross-sections for main contacts stranded     1 10 mm², 2x (2.5 6 mm²)       connectable conductor cross-section for main contacts finely stranded with core end processing     1 6 mm²       Safety related data     810 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate     73 %	height	265 mm
required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — omm — backwards — omm — omm — omm  • for live parts — forwards — upwards — backwards — upwards — upwards — upwards — upwards — at the side — omm — at the side — omm  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %	width	90 mm
for grounded parts         — forwards         — backwards         — upwards         — upwards         — at the side         — downwards         — forwards         — forwards         — for live parts         — forwards         — backwards         — backwards         — upwards         — upwards         — backwards         — upwards         — at the side         — y mm  Connections/ Terminals  type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded         connectable conductor cross-section for main contacts         stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %	depth	120 mm
Forwards For	required spacing	
— backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards — upwards — at the side — at the side — at the side — onnections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %	<ul> <li>for grounded parts</li> </ul>	
— upwards — at the side — downwards 10 mm  • for live parts — forwards — backwards — upwards — upwards — downwards — at the side  10 mm  0 mm  10 mm		
- at the side - downwards 10 mm  • for live parts - forwards - backwards 0 mm - backwards - upwards 10 mm - downwards 10 mm - at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %	— backwards	
<ul> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>— at the side</li> <li>— onections/ Terminals</li> <li>type of electrical connection for main current circuit</li> <li>type of connectable conductor cross-sections for main contacts stranded</li> <li>connectable conductor cross-section for main contacts finely stranded with core end processing</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures with high demand rate</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>0 mm</li> <li>1 10 mm²</li> <li>2 x (2.5 6 mm²)</li> <li>1 6 mm²</li> <li>1 6 mm²</li> <li>2 mm²</li> <li>3 mm²</li> <li>4 mm²</li> <li>5 mm²</li> <li>6 mm²</li> <li>7 mm²</li> <li>7 mm²</li> <li>7 mm²</li> <li>7 mm²</li> <li>1 mm²</li> <li>1 mm²</li> <li>2 mm²</li> <li>3 mm²</li> <li>4 mm²</li> <li>5 mm²</li> <li>6 mm²</li> <li>7 mm²</li> <li>7</li></ul>	·	
• for live parts  — forwards — backwards — upwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate  1 0 mm  screw-type terminals  1 10 mm², 2x (2.5 6 mm²)  1 6 mm²  1 6 mm²  1 6 mm²		
— forwards — backwards — upwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection for main current circuit stranded  connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  1 mm  1 mm  2 mm  3 mm  5 mm  1 mm  1 mm <sup>2</sup>		10 mm
- backwards - upwards 30 mm - downwards - at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %	·	
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  30 mm 10 mm 10 mm 2 treminals 1 10 mm², 2x (2.5 6 mm²) 1 6 mm²		
- downwards - at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  10 mm 9 mm  1 10 mm², 2x (2.5 6 mm²)  1 6 mm²  1 6 mm²  1 6 mm²		
— at the side 9 mm  Connections/ Terminals  type of electrical connection for main current circuit screw-type terminals  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate  73 %	•	
type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %		
type of electrical connection for main current circuit  type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate  73 %		9 mm
type of connectable conductor cross-sections for main contacts stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate  1 10 mm², 2x (2.5 6 mm²)  1 6 mm²  1 6 mm²  1 10 mm² stranded  1		a constitute de formation de
stranded  connectable conductor cross-section for main contacts finely stranded with core end processing  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate  73 %	· ·	
Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures with high demand rate  73 %		1 10 mm², 2x (2.5 6 mm²)
B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate 73 %		1 6 mm²
proportion of dangerous failures with high demand rate 73 %	Safety related data	
	B10 value with high demand rate according to SN 31920	1 000 000
		73 %

protection class IP on the front according to IEC 60529

IP20

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

Certificates/ approvals

**General Product Approval** 

For use in hazardous locations

**Declaration of Conformity** 

other

Confirmation









Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-busines

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RA2220-1EB23-0AP6

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2220-1EB23-0AP6}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1EB23-0AP6

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

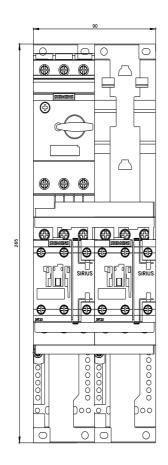
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2220-1EB23-0AP6&lang=er

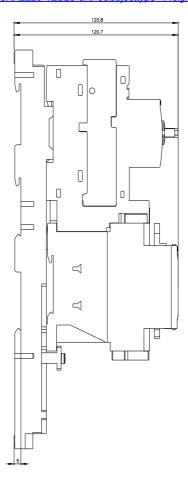
Characteristic: Tripping characteristics, I2t, Let-through current

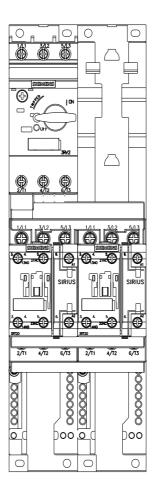
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1EB23-0AP6/char

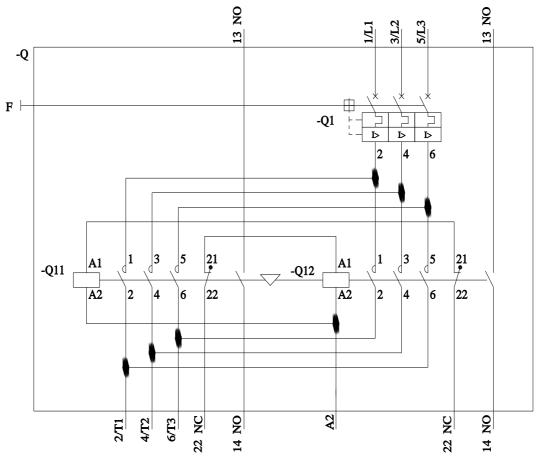
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1EB23-0AP6&objecttype=14&gridview=view1









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