## **Data sheet**

### 3RA2120-1GA24-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 4.50...6 30 A 24 V DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for DIN-rail or screw mounting
product type designation	3RA21
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	3RT2024-1BB40
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1GA10
<ul> <li>of the supplied link module</li> </ul>	3RA2921-1BA00
General technical data	
size of the circuit-breaker	S00
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>	2.7 W
<ul> <li>without load current share typical</li> </ul>	5.9 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	1.015 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	4.5 6.3 A
operating voltage	
• rated value	690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V

Operational current		TO 0011
# AC-3 at 400 V rated value	operating frequency rated value	50 60 Hz
e at AC-De at 400 V rated value e at AC-De — at 400 V rated value e at AC-De — at 400 V rated value e at AC-De — at 400 V rated value e at AC-De — at 400 V rated value e at AC-De  control supply voltage at DC rated value Dolding power of magnet coll at DC  Audiliany circuit  product extension auxiliary switch Productive and monitoring functions  rip class  CLASS 10  temporary and product extension auxiliary switch Productive and monitoring functions  rip class  CLASS 10  temporary and product extension auxiliary switch Productive and monitoring functions  rip class  CLASS 10  temporary and product extension auxiliary switch Productive and monitoring functions  rip class  CLASS 10  temporary and product extension auxiliary switch  Productive and monitoring functions  thermal (clanetalic)  temporary and product extension auxiliary switch  ### AC-DE  ### AC-DE	•	
operating power  * A AC-3  — at 400 V rated value  * 200 W  * AC-3e  — at 400 V rated value  2 200 W  * Type of Voltage of the control supply voltage  Control supply voltage at DC rated value  2 4 V  Auditory circuit  product extension auxiliary switch  Ves  Profective and monitoring functions  trip class  CLASS 10  design of the overload release  tresponse value current of instantaneous short-circuit trip unit  PULCSA ratings  TULFOSA ratings  TULFOSA ratings  TULFOSA ratings  TULFOSA ratings  TULFOSA variage  * of single-phase AC motor  • at 480 V rated value • at 20 V rated value  — at 200.280 V rited value  — at 480 V rated value  — at 480 V rated value  — at 480 V rated value  — at 200.280 V rited value  — at 200.280 V rited value  — at 480 V rated value  — at 575600 V rated value  — browner in the value  — at 480 V rated value  — at 575600 V rated value  — browner in the value  — at 480 V rated value  — at 575600 V rated value  — at 580 D rated value  — at 680 D rated value  — at 6		
# at AC3		6.3 A
	operating power	
	• at AC-3	
- at 400 V rated value   2 200 W    Control circuit Control    Type of voltage of the control supply voltage   DC    Control supply voltage at DC rated value   24 V    Auxiliary circuit    Product extension auxiliary switch   Yes    Product function and circuit product of the control of sale and the control o	— at 400 V rated value	2 200 W
Control circuit/ Centrol  Type of voltage of the control supply voltage  OC control supply voltage at DC atted value  24 V  Autiliary circuit  Productive and monitoring functions  Trip class  CLASS 10  design of the overload release response value current of instanaeous short-circuit trip unit  ULCSA ratings  IIII OS value value  6 3 A  6 3 A  6 3 A  6 3 A  7 8 10 10 10 10 10 10 10 10 10 10 10 10 10	• at AC-3e	
type of voltage of the control supply voltage	— at 400 V rated value	2 200 W
control supply voltage at DC rated value 5,9 W  holding power of magnet coil at DC 5,9 W  Availary critical product extension auxillary switch Yes  Protective and monitoring functions  trip class  CLASS 10  dosign 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 000 V rated value • at 000 V rated value • of single-phase AC motor  — at 1101/20 V rated value • of sphase AC motor  — at 220 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • of 5-phase AC motor  — at 20020 V rated value • 5-ph  Short-circuit protection  product function short circuit protection  yes  design of the short-circuit trip  magnetic  design of the short-circuit trip  activity production short circuit trip  magnetic  design of the short-circuit trip  for of the phase  — for grounded parts — for gro	Control circuit/ Control	
holding power of magnet coil at DC  Auxiliary circuit  Product extension auxiliary ewitch  Product extension auxiliary ewitch  Productive and monitoring 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 480 V rated value • at 800 V rated value • for 3-phase AC motor  — at 110/120 V rated value • for 3-phase AC motor  — at 110/120 V rated value • for 3-phase AC motor  — at 200208 V rated value • for 3-phase AC motor  — at 200208 V rated value • for 3-phase AC motor  — at 200208 V rated value • for 3-phase AC motor  — at 200208 V rated value • for 3-phase AC motor  — at 200208 V rated value • for 3-phase AC motor  — at 95000 V rated value • for 3-phase AC motor  — at 95000 V rated value • for 3-phase AC motor  — at 90000 by rated value • for 3-phase AC motor  — at 90000 by rated value • for 3-phase AC motor  — at 90000 by rated value • for 3-phase AC motor  — at 90000 by rated value • for 3-phase AC motor  — at 9000 by rated value • for 3-phase AC motor  — at 9000 by rated value • for 3-phase AC motor  — at 9000 by rated value • for 3-phase AC motor  — at 9000 by rated value • for 9-product function short circuit protection  yes  Short-circuit protection  yes  Ves  design of the short-circuit trip  magnetic  conditional short-circuit current (tq) • at 400 by according to 1EC 69847-41 rated value  150 000 A  Installation mounting onto 35 mm DIN rail  fastening method  screw and snap-on mounting onto 35 mm DIN rail  fastening method  fastening method  fastening method  fastening method  for grounded parts  — forwards  — backwards  — on ma  - for grounded parts  — forwards  — ownwards  • for live parts  — forwards  — ownwards  • for min current circuit  yes of electrical connection  • for main current circuit  yes of electrical connection  • for main current circuit  yes of electrical connection  • for main current circuit	type of voltage of the control supply voltage	DC
Product extension auxiliary switch   Yes	control supply voltage at DC rated value	24 V
product extension auxiliary switch Protective and monitoring functions trip class  design of the overload release response 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 600 V rated value • at 600 V rated value • for 3-phase AC motor  — at 170/120 V rated value • of 3-phase AC motor — at 170/120 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 460,040 V rated value • at 660,040 V rated value — at 575600 V rated value — at 575600 V rated value — at 675600 V rated value	holding power of magnet coil at DC	5.9 W
Protective and monitoring functions  trip class	Auxiliary circuit	
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	product extension auxiliary switch	Yes
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	Protective and monitoring functions	
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 • d. 3A  • at 600 V rated value • d. 3A  violed mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value • of 3-7 phase AC motor  — at 200 V rated value • of 3-7 phase AC motor  — at 200/208 V rated value • of 3-7 phase AC motor  — at 200/208 V rated value • of 3-7 phase AC motor  — at 200/208 V rated value • at 375/600 V rated value • at 404/80 V rated value • at 575/600 V rated value • b fb p  short-circuit protection  product function short circuit trip trotection  product function short circuit trip trotection  design of the short-circuit turrent (lq) • at 40 V according to IEC 60947-4-1 rated value  150 000 A  Installation/ mounting/ dimensions  mounting position  fastening method screw and snap-on mounting onto 35 mm DIN rail  height 193 mm  width 45 mm  depth • for grounded parts  — forwards — backwards — upwards — 50 mm — at the side — downwards — 10 mm  • for live parts — forwards — 20 mm — head ownwards — 10 mm  • for live parts — forwards — 20 mm — at the side — downwards — 10 mm  • for live parts — forwards — 10 mm  • for live parts — the side — downwards — 10 mm  • for live parts — the side — downwards — 10 mm  • for live parts — the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — at the side — 20 mm — downwards — 10 mm — of the part current circuit  • for main current circuit  • for proventing the forman current		CLASS 10
response value current of instantaneous short-circuit trip unit  UCCSA ratings  Iffull-lada current (FLA) for 3-phase AC motor  • at 480 V rated value • at 800 V rated value • at 800 V rated value  - at 100/20 V rated value — at 110/120 V rated value — at 230 V rated value — at 230 V rated value — at 220/20 V rated value • for 3-phase AC motor — at 100/208 V rated value — at 220/20 V rated value — at 220/20 V rated value — at 578/600 V rated value — at 578/600 V rated value — 5 hp  Short-circuit protection  product funcions short circuit protection  design of the short-circuit current (Iq)  • at 400 V according to IEC 60047-41 rated value  150 000 A  Installation mounting dimensions  mounting position  vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm  vertical fastening method for mm  required spacing • for grounded parts — lowards — backwards — upwards — onwards — 20 mm — at the side — 20 mm — of rilve parts — forwards — puwards — ownwards — 10 mm • for live parts — forwards — puwards — backwards — ownwards — 10 mm  • for live parts — forwards — 20 mm — ownwards — 10 mm  • for live parts — forwards — Domm — at the side — 20 mm — ownwards — 10 mm — of rilve parts — forwards — 10 mm — ownwards — 20 mm — ownwards — 10 mm — ownwards — 10 mm — ownwards — 20 mm — ownwards — 10 mm — ownwards — 20 mm — ownwards — ownwar	·	
Tull-ad current (FLA) for 3-phase AC motor		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value		
• at 480 V rated value • at 600 V rated value • at 600 V rated value • 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 460/480 V rated value — at 575/600 V rated value — 5 hp  Short-circuit protection  product function short circuit protection  design of the short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value  fastoning method height  width 45 mm  depth 107 mm  required spacing • for grounded parts — backwards — upwards — of owwards — of live parts — forwards — of live parts — forwards — owwards — owwards — owmards — owmards — owmards — owmards — of live parts — forwards — owwards — owmards — o		
• at 600 V rated value   9,34 A	. , .	6.3 A
yielded mechanical performance [hp]		
		0.071
- at 1101/20 V rated value 0.75 hp   - at 230 V rated value 0.75 hp   - at 200/208 V rated value 2 hp   - at 220/203 V rated value 2 hp   - at 220/203 V rated value 5 hp   - at 575/600 V rated value 5 hp    Short-circuit protection    product function short circuit protection		
- at 230 V rated value  • for 3-phase AC motor  - at 200/208 V rated value  - at 220/230 V rated value  - at 460/480 V rated value  - at 1576/600 V rated value  - at 1576/600 V rated value  - at 1576/600 V rated value    Shp		0.25 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 575/600 V rated value  5 hp  — at 575/600 V rated value  5 hp   Short-circuit protection  product function short circuit protection  design of the short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value  150 000 A  Installation/mounting/dimensions  mounting position  fastening method screw and snap-on mounting onto 35 mm DIN rail height vidth depth 193 mm  width depth 107 mm  required spacing • for grounded parts — forwards — backwards — backwards — downwards — of rile parts — forwards — of wommards — of rile parts — forwards — of wommards — of rowards — ownwards — of mm  • for live parts — forwards — backwards — ownwards — ow		·
at 200/208 V rated value 2 hp  at 220/230 V rated value 5 hp  at 460/480 V rated value 5 hp  at 575/600 V rated value 5 hp  at 575/600 V rated value 5 hp   Short-circuit protection Yes  design of the short-circuit trip magnetic  conditional 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 screw and snap-on mounting onto 35 mm DIN rail  height 193 mm  depth 107 mm   required spacing  • for grounded parts  forwards 20 mm  backwards 0 mm  upwards 50 mm  at the side 20 mm  downwards 10 mm  • for live parts  forwards 20 mm  backwards 0 mm  backwards 0 mm  at the side 20 mm  backwards 0 mm  at the side 20 mm  backwards 10 mm  at the side 20 mm  backwards 0 mm  backwards 10 mm  at the side 20 mm  backwards 0 mm  backwards 10 mm  at the side 20 mm  backwards 10 mm  at the side 20 mm  backwards 10 mm  backwards 10 mm  at the side 20 mm  forwards 30 mm		0.75 np
- at 220/230 V rated value 2 hp  - at 480/480 V rated value 5 hp   Short-circuit protection	·	
- at 460/480 V rated value 5 hp - at 575/800 V rated value 5 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 fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm  width 45 mm  depth 107 mm  required spacing  • for grounded parts  — forwards 20 mm  — at the side 20 mm  — downwards 100 mm  • for live parts — forwards 20 mm  • for live parts — backwards 0 mm  • for live parts — backwards 0 mm  — upwards 50 mm  - downwards 10 mm  • for live parts — backwards 0 mm  — backwards 0 mm  — at the side 20 mm  — downwards 10 mm  • for live parts — backwards 0 mm  — backwards 10 mm  — at the side 20 mm  — downwards 10 mm  — at the side 20 mm  — downwards 10 mm  — at the side 20 mm  — downwards 10 mm  — at the side 20 mm  — downwards 10 mm  — at the side 20 mm  — downwards 10 mm  — type of electrical connection • for main current circuit screw-type terminals		
Short-circuit protection  product function short circuit protection  esign of the short-circuit trip  at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm DIN rail  height  vertical fastening method  fastening method  screw and snap-on mounting onto 35 mm DIN rail  height  vertical fastening method  for mm  vertical fastening method  fastening method  fastening method  for mm  vertical  fastening method  for mm  vertical  fastening method  fastening method  fastening method  for mm  vertical  fastening method  for mm  fequired spacing  of or grounded parts  — forwards  — backwards  — upwards  — odomwards  — for live parts  — forwards  — upwards  — backwards  — upwards  — downwards  — the side  Connections/ Terminals  type of electrical connection  of or main current circuit  screw-type terminals		
Short-circuit protection   Product function short circuit protection   Yes		
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 screw and snap-on mounting onto 35 mm DIN rail height 193 mm width depth 107 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — backwards — o mm • of or live parts — forwards — to main current circuit  • for main current circuit  type of electrical connection • for main current circuit  screw-type terminals		5 hp
design of the short-circuit trip magnetic  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm DIN rail  height  193 mm  width  45 mm  depth  107 mm  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards • for live parts — for live parts — for live parts — for wards — upwards • for live parts — downwards — upwards — backwards — to mm  • for live parts — forwards — the side — downwards — at the side — downwards — at the side — downwards — the side — downwards — the side — downwards — the side — the side — downwards — the side — the side — downwards — the side — the		
conditional short-circuit current (lq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  vertical fastening method  height  193 mm  width  45 mm  depth  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — for live parts — backwards — upwards — backwards — o mm  • for live parts — downwards — upwards — at the side — downwards — to mm  - downwards — upwards — at the side — commetications — at the side — commetications — at the side — commetications  - at the side — commetications  - at the side — commetications  - or main current circuit  screw-type terminals  type of electrical connection • for main current circuit		
at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm DIN rail  height  193 mm  width  depth  107 mm  required spacing  • for grounded parts  - forwards  - backwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - backwards  0 mm  • for live parts  - forwards  - backwards  0 mm  • for live parts  - forwards  - backwards  0 mm  - upwards  • for live parts  - forwards  - backwards  0 mm  - at the side  20 mm  - backwards  0 mm  - to mm  • for live parts  - forwards  - backwards		Yes
mounting position fastening method height vertical  fastening method height 193 mm  width 45 mm  depth 107 mm  required spacing  • for grounded parts  — forwards — backwards — upwards — at the side — downwards — forwards — forwards • for live parts — forwards — upwards — downwards — upwards — at the side — downwards — to mm — to mm  • for live parts — forwards — upwards — backwards — upwards — backwards — to mm — to mm  • for live parts — forwards — upwards — backwards — upwards — at the side — downwards — upwards — downwards — upwards — downwards — downwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit  screw-type terminals	product function short circuit protection	
mounting position  fastening method  screw and snap-on mounting onto 35 mm DIN rail  height  193 mm  width  45 mm  depth  107 mm  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — owm  — owm mands  • for live parts  — forwards  — backwards  — owm  — at the side  — downwards  — to mm  — upwards  — backwards  — to mm  — at the side  — owm mands  — to mm  — to mands  — to mm  — owm mands	product function short circuit protection design of the short-circuit trip	
fastening method screw and snap-on mounting onto 35 mm DIN rail   height 193 mm   width 45 mm   depth 107 mm   required spacing • for grounded parts   — forwards 20 mm   — backwards 0 mm   — upwards 50 mm   — at the side 20 mm   — downwards 10 mm   • for live parts 20 mm   — backwards 0 mm   — upwards 20 mm   — backwards 0 mm   — upwards 50 mm   — downwards 10 mm   — at the side 20 mm   Connections/ Terminals   type of electrical connection • for main current circuit screw-type terminals	product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	magnetic
height 193 mm   width 45 mm   depth 107 mm   required spacing	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	magnetic
width 45 mm  depth 107 mm  required spacing  • for grounded parts  — forwards 20 mm  — backwards 0 mm  — upwards 50 mm  — at the side 20 mm  — downwards 10 mm  • for live parts  — forwards 20 mm  — to wards 20 mm  — to wards 30 mm  — backwards 30 mm  — upwards 30 mm  — upwards 30 mm  — at the side 30 mm  — connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals	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	magnetic 150 000 A
depth     107 mm       required spacing <ul> <li>for grounded parts</li> <li>for wards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for wards</li> <li>backwards</li> <li>upwards</li> <li>for mm</li> </ul> • for live parts     20 mm           upwards         0 mm           upwards         50 mm           downwards         10 mm           at the side         20 mm           Connections/ Terminals           type of electrical connection         screw-type terminals	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	magnetic  150 000 A  vertical
required spacing	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	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail
● for grounded parts  — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — backwards — upwards — upwards — downwards — upwards — downwards — upwards — at the side — downwards — at the side — downwards — of mm — connections/ Terminals  type of electrical connection ● for main current circuit  ■ screw-type terminals	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 height	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm
● for grounded parts  — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — backwards — upwards — upwards — downwards — upwards — downwards — upwards — at the side — downwards — at the side — downwards — of mm — connections/ Terminals  type of electrical connection ● for main current circuit  ■ screw-type terminals	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  height  width	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm
forwards 20 mm backwards 0 mm upwards 50 mm at the side 20 mm downwards 10 mm  ■ for live parts forwards 20 mm backwards 0 mm backwards 50 mm upwards 50 mm downwards 10 mm at the side 20 mm  Connections/ Terminals  type of electrical connection ■ for main current circuit screw-type terminals	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  height  width  depth	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm
backwards 0 mm upwards 50 mm at the side 20 mm downwards 10 mm  ■ for live parts forwards 20 mm backwards 0 mm backwards 50 mm upwards 50 mm downwards 10 mm at the side 20 mm  Connections/ Terminals  type of electrical connection ■ for main current circuit screw-type terminals	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  height  width  depth  required spacing	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm
- upwards 50 mm - at the side 20 mm - downwards 10 mm  • for live parts - forwards 20 mm - backwards 0 mm - backwards 50 mm - upwards 50 mm - downwards 10 mm - at the side 20 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
- at the side	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  height  width  depth  required spacing  • for grounded parts  — forwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
- downwards  • for live parts  - forwards  - backwards  - upwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  10 mm  50 mm  20 mm  Connections/ Terminals  type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
for live parts         — forwards         — backwards         — upwards         — downwards         — at the side  Connections/ Terminals  type of electrical connection         • for main current circuit  e for live parts  20 mm  50 mm  10 mm  20 mm  connections/ Terminals  type of electrical connection  • for main current circuit  screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm
forwards 20 mm backwards 0 mm upwards 50 mm downwards 10 mm at the side 20 mm  Connections/ Terminals  type of electrical connection  ● for main current circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm
- backwards 0 mm - upwards 50 mm - downwards 10 mm - at the side 20 mm  Connections/ Terminals  type of electrical connection	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm
<ul> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>20 mm</li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>screw-type terminals</li> </ul> </li> </ul>	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm 10 mm
— downwards — at the side 20 mm  Connections/ Terminals  type of electrical connection	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm 10 mm 10 mm
— at the side 20 mm  Connections/ Terminals  type of electrical connection  ● for main current circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — backwards  — torwards  — forwards  — backwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 10 mm 10 mm
Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — backwards  — upwards  • for live parts  — forwards  — backwards  — backwards  — upwards  — upwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm  20 mm  0 mm  50 mm
type of electrical connection  • for main current circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — backwards  — upwards  — to rewards  — to rewards  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — downwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm  10 mm  20 mm  0 mm  10 mm
• for main current circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — forwards  — downwards  — downwards  — backwards  — upwards  — downwards  — at the side  — downwards  — at the side	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm  10 mm  20 mm  0 mm  10 mm
	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — downwards  — to downwards  — backwards  — at the side  — downwards  — at the side  — downwards  — at the side  — downwards  — at the side  Connections/ Terminals	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm  10 mm  20 mm  0 mm  10 mm
• for auxiliary and control circuit screw-type terminals	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — downwards  — torwards  — backwards  — backwards  — at the side  Connections/ Terminals  type of electrical connection	vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 10 mm 20 mm 0 mm 10 mm
	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  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — torwards  — backwards  — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit	vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 20 mm 10 mm 50 mm 20 mm 0 mm 50 mm 50 mm 20 mm 50 mm 50 mm

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	

**General Product Approval** 

For use in hazardous locations

**Test Certificates** 











Type Test Certificates/Test Report

**Test Certificates** 

Marine / Shipping

**Special Test Certific-**<u>ate</u>











Marine / Shipping

other

Railway

**Dangerous goods** 

**Environment** 





Confirmation

**Special Test Certific-**<u>ate</u>

**Transport Information** 

**Environmental Confirmations** 

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-1GA24-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1GA24-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1GA24-0BB4

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

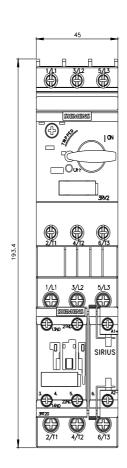
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2120-1GA24-0BB4&lang=en

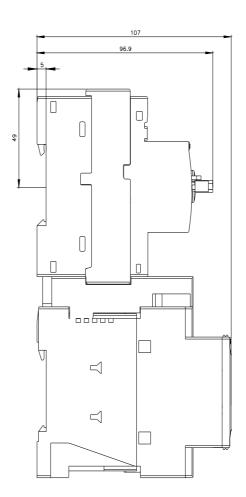
Characteristic: Tripping characteristics, I2t, Let-through current

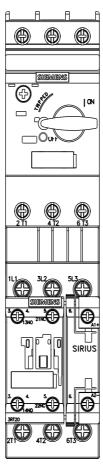
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1GA24-0BB4/char

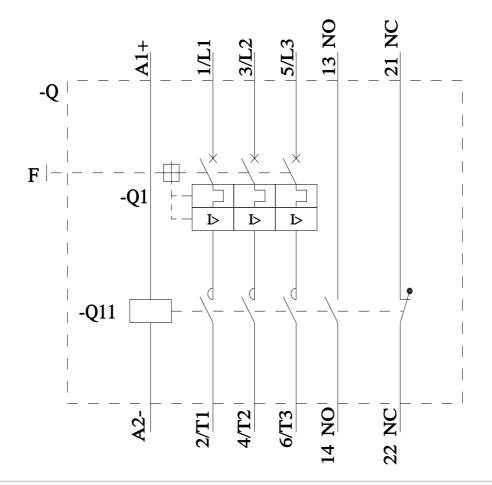
Further characteristics (e.g. electrical endurance, switching frequency)

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