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 standard rail or screw mounting |
| product type designation | 3RA21 |
| manufacturer's article number | |
| of the supplied contactor | 3RT2024-1BB40 |
| of the supplied circuit-breakers | 3RV2011-1GA10 |
| of the supplied link module | 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 | |
| at AC in hot operating state per pole | 2.7 W |
| without load current share typical | 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 | |
| during operation | -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 |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 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 — ownwards — ownwards • for method of the parts — forwards — ownwards • for method of the parts — forwards — ownwards • for men current circuit ver delectrical connection • for main current circuit ver delectrical connection • for main current circuit ver delectrical 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 proverse and snap-on mounting | | 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 — backwards — ownwards — 10 mm • for live parts — forwards — 10 mm — of rilve parts — forwards — 10 mm — of rilve parts — forwards — 10 mm — ownwards — 20 mm — ownwards — 10 mm — of rilve parts — forwards — 20 mm — ownwards — 10 mm — ownwards — 20 mm — ownwards — 10 mm — ownwards — 10 mm — ownwards — 20 mm — ownwards | · | |
| 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 for grounded parts for wards backwards upwards at the side downwards for live parts for wards backwards upwards for mm • 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 |
| — upwards — downwards — 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 | 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 | |
| PROFINET IO protocol | No |
| PROFIsafe protocol | No |
| protocol is supported AS-Interface protocol | No |
| Approvals Certificates | |

General Product Approval

For use in hazardous locations





Confirmation







Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other

Railway

Dangerous goods







Confirmation

Special Test Certific-

Transport Information

Environment

Environmental Confirmations

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=3RA2120-1GA24-0BB4

Cax online generator

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

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

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

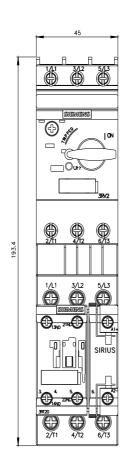
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

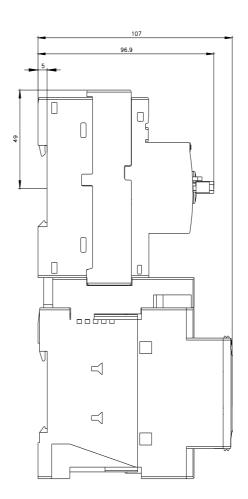
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1GA24-0BB4&lang=en

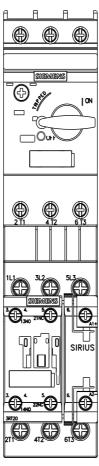
Characteristic: Tripping characteristics, I²t, Let-through current

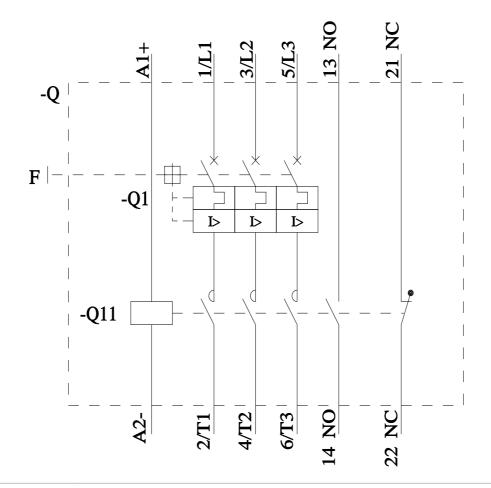
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1GA24-0BB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1GA24-0BB4&objecttype=14&gridview=view1









last modified: 6/5/2024 🖸

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