SIEMENS

Data sheet



Load feeder fuseless, Reversing duty 400 V AC, Size S00 0.14...0.20 A 230 V AC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NC (contactor)

| product brand name | SIRIUS |
|---|-------------------------------------|
| product designation | Reversing starter |
| design of the product | for standard rail or screw mounting |
| product type designation | 3RA22 |
| manufacturer's article number | |
| of the supplied contactor | 3RT2015-1AP02 |
| of the supplied circuit-breakers | 3RV2011-0BA10 |
| of the supplied link module | 3RA1921-1DA00 |
| of the supplied wiring kit | 3RA2913-2AA1 |
| General technical data | |
| size of the circuit-breaker | \$00 |
| size of load feeder | \$00 |
| power loss [W] for rated value of the current | |
| • at AC in hot operating state per pole | 2 W |
| without load current share typical | 4.2 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 | 30 000 000 |
| 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 | 0.809 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 | 0.14 0.2 A |
| operating voltage | |
| • rated value | 690 V |
| • at AC-3 rated value maximum | 690 V |

| operating frequency rated value | at AC-3e rated value maximum | 690 V |
|--|---|----------------------|
| Operational current | | |
| | | |
| operating power | - | 0.2 A |
| # at AC-3 | • at AC-3e at 400 V rated value | 0.2 A |
| | operating power | |
| - al 400 V rated value - al 50 Hz - al 60 | • at AC-3 | |
| | — at 400 V rated value | 60 W |
| Control circuit Control Type of voltage of the control supply voltage at 50 Hz rated value at 50 Hz rated value apparent holding power of magnet coil at AC at 50 Hz backwards conditional spots control supply voltage at AC at 50 Hz backwards commands at 50 Hz at 50 Hz backwards commands at 50 Hz at 50 Hz at 50 Hz backwards commands at 50 Hz at 50 Hz at 50 Hz backwards commands at 50 Hz a | • at AC-3e | |
| type of voltage of the control supply voltage at AC at 60 Hz rated value at 60 Hz bat 60 Hz control by control | — at 400 V rated value | 60 W |
| control supply voltage at AC • at 50 Hz rated value • at 00 Hz ated value • at 00 Hz ated value • at 00 Hz • | Control circuit/ Control | |
| a at 50 Hz rated value 230 V 230 V 230 V 230 V 230 V 240 Hz rated value 240 VA | type of voltage of the control supply voltage | AC |
| e at 60 Hz rated value apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz at 50 Hz building power factor with the holding power of the coil at 50 Hz at 60 Hz building of the collection collection collection collection collection collection at 50 Hz building of the collection colle | control supply voltage at AC | |
| apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 5 at 60 Hz 0.25 at 60 Hz 0.25 at 60 Hz 0.25 at 60 Hz 0.25 Auxiliary circuit Product extension auxiliary switch Protective and monitoring functions trip class CLASS 10 design of the overload release thermal (timetallic) response value current of instantaneous short-circuit trip unit ULCSA ratings ULCSA ratings Illul-load current (FLA) for 3-phase AC motor at 480 V rated value 0.2 A short-circuit protection product function short circuit protection easign of the short-circuit current (ri) at 400 V sacording to IEC 000474-1 rated value 150 000 A Installation/mounting/dimensions mounting position fastening method beight for grounded parts - for grounded parts - forwards - obekwards - obekwards - ownwards - for wards - for wards - ownwards - ownwards | at 50 Hz rated value | 230 V |
| e at 50 Hz | at 60 Hz rated value | 230 V |
| * at 60 Hz inductive power factor with the holding power of the coil * at 50 Hz * at 80 Hz Autiliary circuit product extension auxiliary switch Yes Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULISAN attings full-load current (FLA) for 3-phase AC motor * at 480 V rated value * at 60 V rated value * both-circuit protection product function short circuit trip * magnetic conditional short-circuit current ((q) * at 400 V according to IEC 60947-4-1 rated value Installation/mounting/ dimensions mounting position fastening method height * 170 mm width * 90 mm depth * of grounded parts * - forwards * - backwards * - backwards * - backwards * - backwards * - to five parts * - forwards * - forwards * - to five parts * - forwards * - to f | apparent holding power of magnet coil at AC | 4.2 VA |
| inductive power factor with the holding power of the coil | ● at 50 Hz | |
| at 50 Hz at 50 Hz at 60 Hz buildary sercuit product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULGSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value builded at 600 V rated value builded builded at 600 V rated value builded at 600 V rate | | |
| at 160 Hz Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULCSA ratings full-load current (FLA) for 3-phase AC motor at 1480 V rated value at 600 V rated value at 1600 V rated value at 1600 V rated value product function 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 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 170 mm width 90 mm depth required spacing for grounded parts — forwards — at the side — downwards — to man — to man for live parts — lowards — upwards — backwards 0 mm — upwards — forwards — at the side — upwards — forwards — upwards — forwards — to man — to man — upwards — downwards — to man — upwards — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — at the side — downwards — to man — to main current circuit — for main current circuit for auxiliary and control circuit screw-type terminals type of electrical connection for main current circuit for auxiliary and control circuit screw-type terminals | | |
| Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit 2.6 A UL/GSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • 0.2 A • at 600 V rated value 0.2 A Short-circuit protection product function short circuit trip magnetic conditional short-circuit trip conditional short-circuit trip conditional short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value Installator mounting dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height vidth 90 mm depth 97 mm required spacing • for grounded parts — backwards — upwards — at the side — downwards — the side — downwards — to rivards — 50 mm — the side — downwards — upwards — backwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — the side — downwards — the side — to mm — the side — downwards — the side — to mm — the side — to mm — the side — to mm — the side — downwards — the side — to mm — to mm — the side — to | | |
| product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value O.2 A Short-circuit protection Product function 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 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — lorwards — upwards — backwards — upwards • for live parts — forwards • for live parts — forwards — at the side — downwards — upwards • for live parts — forwards — backwards — upwards • for live parts — forwards — odownwards — lownwards — 10 mm • for mm Connectional/Torminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for main current circuit • for maxiliary and control circuit • for auxiliary and control circuit • | 20.00.1. | 0.25 |
| trip class CLASS 10 dosign of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit 2.6 A ULCSA ratings full-load current (FLA) for 3-phase AC motor | | |
| trip class design of the overload release response value current of instantaneous short-circuit trip unit UL/GSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 680 V rated value • 0.2 A Short-circuit protection product function short circuit protection design of the short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 170 mm width depth 90 mm depth 97 mm required spacing • for grounded parts — forwards — at the side — at the side — downwards — low rated side — for live parts — for live parts — forwards — upwards — backwards — at the side — downwards — to live parts — forwards — at the side — downwards — upwards — backwards — own — upwards — 50 mm — to live parts — forwards — at the side — downwards — upwards — backwards — upwards — at the side — downwards — to live parts — forwards — at the side — to mm — upwards — backwards — upwards — backwards — upwards — at the side — lo mm — at the side — upwards — at the side — upwards — at the side — upwards — at the side — lo mm — to mm Connections/ Torminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for mauxiliary and control circuit • for maxiliary and control circuit • for maxiliary and control circuit | | Yes |
| design of the overload release response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value product function short circuit protection yes design of the short-circuit trip conditional short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value Installation mounting dimensions mounting position fastening method height vidth 90 mm depth vidth 97 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — low mm — downwards — backwards — orwards — backwards — own mm — downwards — low mm — downwards — upwards — backwards — own mm — downwards — own mm — downwards — low mm — downwards — own mm — | | 01100.40 |
| response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.2 A ***Total value on the value on | · | |
| 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 product function short circuit protection yes design of the short-circuit trip magnetic conditional short-circuit trip • at 400 V according to IEC 60947-4-1 rated value installation/ mounting/ dimensions mounting position resulting method height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — forwards — at the side — downwards — of ownwards — forwards — ownwards — forwards — at the side — downwards — to mm — to mm • for live parts — forwards — backwards — ownwards — upwards — ownwards — to mm — at the side — downwards — upwards — forwards — a the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — forwards — to mm — at the side — forwards — to mm — to mm — to mm — at the side — forwards — to mm — at the side — formards — at the side — formards — ownwards — to mm — at the side — formards — or mm — at the side — formards — at the side — for mm — at the side — for main current circuit — for main | | |
| full-load current (FLA) for 3-phase AC motor | · · · · · · · · · · · · · · · · · · · | 2.6 A |
| at 480 V rated value at 600 V rated value 7 Ves design of the short-circuit protection product function short circuit trip magnetic conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position fastening method height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — on mm • of mive parts — forwards — backwards — on mm • of mive parts — forwards — at the side — downwards — to mm — upwards — of orwards — at the side — downwards — to mm — downwards — to mm — upwards — of orwards — at the side — downwards — to mm — upwards — of or mm — upwards — to mm | | |
| • at 600 V rated value Short-circuit protection product function short circuit trip conditional short-circuit trip • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — forwards — backwards — at the side — downwards — for live parts — for live parts — forwards — backwards — backwards — upwards — of mive parts — for live parts — forwards — backwards — backwards — backwards — to live parts — forwards — to live parts — forwards — backwards — backwards — backwards — to mm — downwards — lo mm — of or main current circuit — for main current circuit — for main current circuit — for auxiliary and control circuit — screw-type terminals — for auxiliary and control circuit — screw-type terminals | | 004 |
| Short-circuit protection Product function short circuit protection Yes magnetic | | |
| 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 vertical fastening method screw and snap-on mounting onto 35 mm DIN rall height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — of min m • for live parts — forwards — backwards — backwards — backwards — to mm • for live parts — forwards — at the side — downwards — to mm • for live parts — forwards — at the side — downwards — to mm • for main current is side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals | | 0.2 A |
| design of the short-circuit trrip magnetic conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value 150 000 A mounting position vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts - forwards 32 mm - backwards 0 mm - upwards 50 mm - at the side 10 mm • for live parts 32 mm - backwards 0 mm - at the side 10 mm - odownwards 10 mm - at the side 10 mm Connections/ Terminals | | Vaa |
| conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 170 mm width 90 mm depth required spacing • for grounded parts — forwards — at the side — downwards — for live parts — forwards • for live parts — backwards — obsekwards — of or live parts — forwards — at the side — downwards 10 mm • for live parts — backwards — a the side — downwards 10 mm • for live parts — backwards — a the side — downwards 10 mm • for live parts — backwards — a the side — downwards — to main current circuit • for main current circuit • for main current circuit • for main current circuit • for main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit screw-type terminals | | |
| 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 170 mm width 90 mm depth required spacing for grounded parts | | magnetic |
| Installation/ mounting/ dimensions | | 150 000 A |
| mounting position vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts - forwards 32 mm - backwards 0 mm - upwards 50 mm - at the side 10 mm - for live parts 32 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | | 100 000 // |
| fastening method screw and snap-on mounting onto 35 mm DIN rail height 170 mm width 90 mm depth 97 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm • for live parts — forwards 32 mm • for wards 10 mm • for live parts — downwards 32 mm — backwards 0 mm • to mm • for live parts — to main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit screw-type terminals • for emain current circuit • for auxiliary and control circuit | | vertical |
| height 170 mm width 90 mm depth 97 mm required spacing ● for grounded parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm ● for live parts — forwards 32 mm O mm ● for live parts 50 mm ■ the side 10 mm ■ for wind parts 50 mm ■ for wind parts 50 mm ■ connections/ Terminals type of electrical connection ● for main current circuit screw-type terminals ● for auxiliary and control circuit screw-type terminals | | |
| width 90 mm depth 97 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts — forwards 32 mm • for wire parts — forwards 0 mm — upwards 50 mm — at the side 10 mm • for live parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — upwards 10 mm — at the side 10 mm — at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | | |
| depth 97 mm required spacing for grounded parts forwards backwards upwards at the side mm downwards for mm for live parts forwards backwards mm backwards mm downwards mm downwards mm at the side mm at the side mm connections/ Terminals for main current circuit for auxiliary and control circuit screw-type terminals for auxiliary and control circuit screw-type terminals | | |
| required spacing | | |
| for grounded parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — o mm — backwards — backwards — backwards — upwards — upwards — downwards — at the side — downwards — downwards — downwards — at the side — at the side — at many connections — for main current circuit — for main current circuit — for auxiliary and control circuit screw-type terminals — screw-type terminals — screw-type terminals | | |
| forwards 32 mm backwards 0 mm upwards 50 mm at the side 10 mm downwards 10 mm • for live parts forwards 32 mm backwards 0 mm backwards 0 mm upwards 50 mm downwards 10 mm at the side 10 mm at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | | |
| - upwards 50 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 32 mm - backwards 0 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | | 32 mm |
| - at the side 10 mm - downwards 10 mm • for live parts - forwards 32 mm - backwards 0 mm - upwards 50 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | | |
| - downwards • for live parts - forwards - backwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals 10 mm 10 mm 10 mm | — upwards | 50 mm |
| for live parts — forwards — backwards — upwards — upwards — downwards — at the side — at the side Connections/ Terminals type of electrical connection ● for main current circuit ● for auxiliary and control circuit | · | 10 mm |
| - forwards 32 mm - backwards 0 mm - upwards 50 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | — downwards | 10 mm |
| backwards — upwards — downwards — at the side — at the side — to mm Connections/ Terminals type of electrical connection — for main current circuit — for auxiliary and control circuit screw-type terminals | • for live parts | |
| - upwards 50 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | — forwards | 32 mm |
| downwards 10 mm at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | — backwards | 0 mm |
| — at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | — upwards | 50 mm |
| type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals screw-type terminals | — downwards | 10 mm |
| type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals | — at the side | 10 mm |
| for main current circuit for auxiliary and control circuit screw-type terminals screw-type terminals | Connections/ Terminals | |
| • for auxiliary and control circuit screw-type terminals | type of electrical connection | |
| · · · · · · · · · · · · · · · · · · · | for main current circuit | screw-type terminals |
| | | screw-type terminals |
| Safety related data | 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 Cartificates | |

Approvals Certificates

General Product Approval

For use in hazardous locations





Confirmation







Test Certificates

Marine / Shipping

Special Test Certific-

Type Test Certificates/Test Report









Marine / Shipping

other Railway **Environment**







Confirmation

Special Test Certificate

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=3RA2210-0BA15-2AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0BA15-2AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0BA15-2AP0

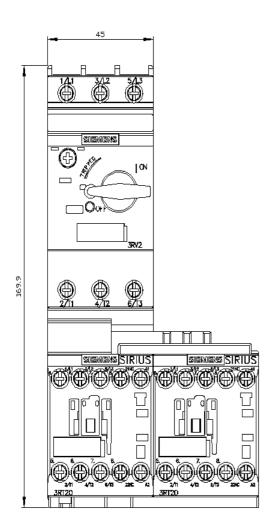
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

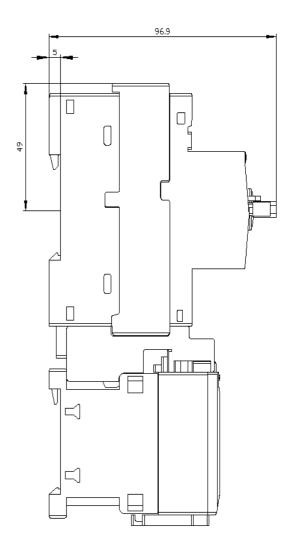
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0BA15-2AP0&lang=en

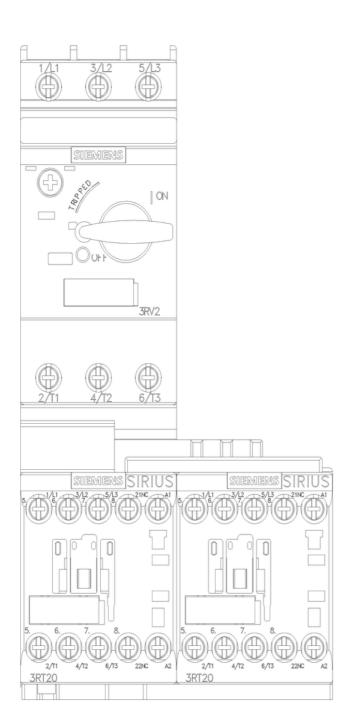
Characteristic: Tripping characteristics, I2t, Let-through current

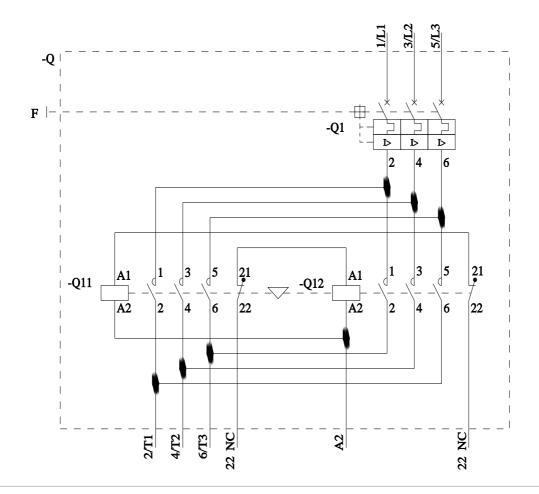
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0BA15-2AP0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0BA15-2AP0&objecttype=14&gridview=view1









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