SIEMENS

Data sheet

3RA2210-0HD15-2BB4

	Load feeder fuseless, Reversing duty 400 V AC, Size S00 0.550.80 A 24 V DC screw terminal for 60 mm busbar systems (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 60 mm busbars
product type designation	3RA22
manufacturer's article number	
 of the supplied contactor 	3RT2015-1BB42
 of the supplied circuit-breakers 	3RV2011-0HA10
 of the supplied RS assembly kit 	3RA2913-1DB1
of the supplied link module	3RA1921-1DA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S00
power loss [W] for rated value of the current	
at AC in hot operating state per pole	2.6 W
without load current share typical	4 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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Blei - 7439-92-1
Ambient conditions	DICI - 7400-02-1
ambient temperature	-20 +60 °C
during operation	-50 +80 °C
during storage	-50 +80 °C
• during transport	-20 +60 °C
temperature compensation	
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	0.55 0.8 A
operating voltage	
• rated value	690 V
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	0.8 A
at AC-3e at 400 V rated value	0.8 A
operating power	
• at AC-3	
— at 400 V rated value	180 W
• at AC-3e	

Control street Control	— at 400 V rated value	180 W
stype of voltage of the centrol supply voltage control supply voltage at DC * roled Volum * r		
control supply voltage at DC * rialet value*		DC
* rated value * rated value * rated value * 24 \ 24 \ 24 \ 24 \ 24 \ 24 \ 24 \		
* relativable 24 24 V holding power of magnet coil at DC 4 W Aviancy product attension auxiliary switch Yes Product extension auxiliary switch Yes Protective and monitoring functions trip class CLASS 10 design of the overload release thermal (climetallic) response value current of instantaneous short-circuit trip unit 10 / A		24 V
Doubling power of magnet coil at DC		
Auxiliary circuit product extension auxiliary switch Protective and mentioning functions trip class Gesign of the overload release thermal (binetallic) response value current of instantaneous short-circuit trip unit UICSA ratings Tull-load current (FLA) for 3-phase AC motor • 14 450 V rated value • 14 500 V rated value • 10 0.8 A • 14 500 V rated value • 10 0.5 hp • 14 450/480 V rated value • 10 0.5 hp • 14 450/480 V rated value • 10 0.5 hp • 14 450/480 V rated value • 10 0.5 hp • 14 450/480 V rated value • 10 0.5 hp Short-circuit protection product function short-circuit current (fla) • 14 400 V according to IEC 00047-41 rated value Installation/mounting/diffiensions mounting position fastoning method for snapping onto 60 mm busbar systems height • 204 mm width • 90 mm depth • 155 mm required spacing • for grounded parts - lowards - backwards - backwards - backwards - backwards - commonding of the state of the size of the		
product extension sutility switch Protestive and monitoring functions frip class design of the overload release response value current of instantaneous short-circuit trip unit ULCSA ratings ful-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance (hp) or 3-phase AC motor - at 40-0480 V rated value yielded mechanical performance (hp) or 3-phase AC motor - at 40-0480 V rated value yielded mechanical performance (hp) or 3-phase AC motor - at 40-0480 V rated value yielded mechanical performance (hp) or 3-phase AC motor - at 40-0480 V rated value yielded mechanical performance (hp) or 3-phase AC motor - at 675/600 V rated value yielded mechanical performance (hp) or 4-40-0480 V rated value yielded mechanical performance (hp) or 4-40-0480 V rated value yielded mechanical performance (hp) or 5-phase AC motor - at 675/600 V rated value - at 675/600 V rated value - at 68-04-05-05-05-05-05-05-05-05-05-05-05-05-05-		
Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit UIUCSA ratings full-load current (FLA) for 3-phase AC motor • at 80 V rated value • at 600 V rated value • at 600 V rated value • of 600 V rated value • of 500 V rated value • of 600 V rate		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 • at 480 V rated value • at 800 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • at 480-480 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • at 480-480 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • at 480-480 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • at 480-480 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • at 480-480 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • at 480-480 V rated value yielded mechanical performance (hp) • for 3-phase AC motor • for shape AC motor • for sh	<u> </u>	
design of the overload release response value current of instantaneous short-circuit trip unit UI/CSA ratings full-load current (FLA) for 3-phase AC motor • at 80 V rated value • at 600 V rated value • of 800 V rated value • of 800 V rated value • of 7-phase AC motor — at 460/480 V rated value • 0.5 hp — of 7-phase AC motor — at 450/480 V rated value 0.5 hp Short-circuit protection product function short circuit trip magnetic conditional short-circuit trip magnetic conditional short-circuit current (tg) • at 400 V according to IEC 60474-1 rated value 150 000 A Installation/mounting/ dimensions mounting position fastening method for snapping onto 60 mm busbar systems height 204 mm width 90 mm depth required spacing • for grounded parts — forwards — bedowards — on mm — upwards — bedowards — on mm — or in the side — on mm — bedowards — on mm — bedowards — on mm — or in the side		CLASS 10
response value current of instantaneous short-circuit bip unit UICSA ratings IIII-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 670 V rated value • at 675 600 V rated value	•	
Tull-oad current (FLA) for 3-phase AC motor at 480 V rated value ot 500 V rated value ot 57800 V rated value ot 5000 V rated value		
full-load current (FLA) for 3-phase AC motor at 460 V rated value at 600 V rated value 0.8 A 2 at 600 V rated value 0.8 A 2 on 460480 V rated value 0.5 hp - at 57-9600 V rated value 0.5 hp - at 57-9600 V rated value 0.5 hp Short-circuit protection product function short circuit protection yes design of the short-circuit urrent (fq) at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation function grounding dimensions mounting position fastening method for snapping onto 60 mm busbar systems height vidth 90 mm depth required spacing of grounded parts - for grounded parts - onwards - at the side 10 mm - downwards of of low parts - forwards - onwards - on the side 10 mm - downwards - onwards - onwards - onwards - on m - ownwards - ownw		
at 480 V rated value at 600 V rated value vyielded mechanical performance [hp] of 07 3-phase AC motor —at 480/480 V rated value —at 575/800 V rated value —ot 575/800 V rated value —ot 575/800 V rated value Droduct function short circuit protection product function short circuit trip conditional short-circuit trip at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation mounting dimensions mounting position vertical fastening method for snapping onto 60 mm busbar systems height year year year for grounded parts for grounded parts for grounded parts - forwards - backwards - omm - upwards - on the side 10 mm - downwards • for live parts - lowards - backwards - upwards - backwards - upwards - backwards - upwards - for live parts - which should be a simple should be a sim		
yielded mechanical performance [hp] • for 3-phase AC motor — at 460480 V rated value — at 375/600 V rated value — at 375/600 V rated value — at 375/600 V rated value Short-circuit protection design of the short-circuit current (ri) • at 40 V according to IEC 60947-4-1 rated value 150 000 A Installation mounting dimensions mounting position fastering method fastering method for snapping onto 60 mm busbar systems height — 20 mm width — 90 mm depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — 4th side — downwards — 10 mm • for live parts — forwards — backwards — backwards — 0 mm • for live parts — forwards — at the side — downwards — 10 mm • for live parts — forwards — backwards — backwards — backwards — to mm • for live parts — forwards — at the side — downwards — 10 mm • for live parts — forwards — backwards — backwards — backwards — to mm • for live parts — forwards — at the side — downwards — 10 mm • for live parts — forwards — at the side — to mm • for live parts — the side — to mm • for live parts — the side — to mm • for live parts — with high demand rate according to SN 31920 To safty related data proportion of dangerous fallures • with high demand rate according to SN 31920 To mm 10 to the protection on the front according to SN 31920 To mm 10 to the protection on the front according to SN 31920 To minimization Protection PROFINET IO protection		0.8 A
for 3-phase AC motor	• at 600 V rated value	
for 3-phase AC motor	yielded mechanical performance [hp]	
At 575/600 V rated value 0.5 hp Short-circuit protection product function short circuit protection design of the short-circuit current (lq)		0.5 hp
Short-circuit protection product function short circuit trip conditional short-circuit current (c) at 400 V according to IEC 60947-4-1 rated value installation mounting dimensions mounting position fastening method for snapping onto 60 mm busbar systems height 204 mm width 90 mm depth 155 mm required spacing a for grounded parts — forwards — upwards — upwards — at the side — downwards — for live parts — forwards — so mm — at the side — downwards — upwards — backwards — upwards — 50 mm — at the side — downwards — 10 mm — downwards — upwards — backwards — upwards — 50 mm — at the side — formards — 10 mm (or min current circuit — at he side — upwards — backwards — upwards — backwards — upwards — backwards — upwards — to mm	— at 575/600 V rated value	
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design of the short-circuit trip conditional short-circuit current (lq) a at 400 V according to IEC 60947-4.1 rated value Installation/ mounting / dimensions mounting position fastening method height 204 mm width 90 mm depth 155 mm required spacing • for grounded parts — forwards — upwards — at the side — downwards — lowards — backwards — backwards — backwards — to rive parts — forwards 90 mm 50 mm 10 mm 60 rive parts — forwards 90 mm 10 mm		Yes
conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/mounting/dimensions mounting position fastening method for snapping onto 60 mm busbar systems height vertical for snapping onto 60 mm busbar systems height 204 mm width 90 mm depth required spacing • for grounded parts — forwards — backwards — backwards — at the side — 10 mm — downwards • for live parts — for live parts — for live parts — backwards — upwards — backwards — omm • for main current circuit • for auxiliary and control circuit Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 Indicate the supported PROFINET IO protocol PROFINET IO protocol PROFINET IO protocol PROFINET IO protocol No		magnetic
mounting position vertical fastening method for snapping onto 60 mm busbar systems height 204 mm width 90 mm depth 155 mm required spacing • for grounded parts — forwards 32 mm — at the side 10 mm — at the side 10 mm — downwards 10 mm — forwards 32 mm — at the side 10 mm — at the side 10 mm — at the side 50 mm — at the side 10 mm — at the side 10 mm • for live parts — forwards 32 mm — torwards 50 mm — at the side 10 mm — at the side 10 mm • for live parts — forwards 32 mm — backwards 0 mm — abackwards 10 mm — at the side 10 mm — at the side 10 mm — wards 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 Safety rolated data proportion of dangerous faitures • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to EC 60529 inger-safe, for vertical contact from the front Communication / Protocol protocol is supported • PROFINET IO protocol PROFINET IO protoc	conditional short-circuit current (Iq)	
mounting position fastening method height width 90 mm depth 155 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — ownwards • for live parts — forwards — ownwards • for live parts — downwards — upwards — to mm • for min current circuit • for axillary and control circuit Safety related data proportion of dangerous fallures • with high demand rate according to SN 31920 touch protection on the front according to EC 60529 protocol is supported • PROFINET 10 protocol • No protocol is supported AS-Interface protocol	 at 400 V according to IEC 60947-4-1 rated value 	150 000 A
fastening method height 204 mm width 90 mm depth 155 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — of orwards — of orwards — ownwards — ownwards — ownwards — ownwards — ownwards — ownwards • for live parts — forwards — backwards — upwards — ownwards — 10 mm • for live parts — forwards — backwards — upwards — backwards — upwards — backwards — upwards — ownwards — 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxillary and control circuit Safety related data proportion of dangerous fallures • with high demand rate according to SN 31920 B10 value with high demand rate according to EC 60529 Communication/ Protocol protocol is supported • PROFINET IO protocol	Installation/ mounting/ dimensions	
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width depth 155 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — forwards — orwards — upwards — orwards — upwards — orwards — upwards — orwards — orwa	fastening method	for snapping onto 60 mm busbar systems
required spacing	height	204 mm
required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — towards • for live parts — forwards — backwards — backwards — upwards — backwards — upwards — towards — upwards — towards — upwards — downwards — townwards — upwards — of mm — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Sarew-type terminals Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 formunication/ Protocol protocol is supported • PROFINET IO protocol	width	90 mm
• for grounded parts — forwards — backwards — upwards — at the side — downwards — to mm — downwards — for live parts — forwards — backwards — backwards — backwards — forwards — backwards — backwards — backwards — upwards — downwards — 10 mm — downwards — 10 mm — at the side — to mm — at the side — to mm — at the side — to mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 touch protection on the front according to IEC 60529 protocol is supported • PROFINET IO protocol	depth	155 mm
- 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 - upwards 50 mm - downwards 10 mm - at the side 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 Safety related data proportion of dangerous failures - with high demand rate according to SN 31920 73 % B10 value with high demand rate according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol PROFINET IO protocol PROFINET IO protocol No PROFINET IO protocol No	required spacing	
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- 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 Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1 000 000 touch protection on the front according to IEC 60529 inger-safe, for vertical contact from the front Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFINET IO protocol Protocol is supported AS-Interface protocol No	— backwards	0 mm
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• 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 Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 touch protection on the front according to IEC 60529 protocol is supported • PROFINET IO protocol • PROFIsafe protocol protocol is supported AS-interface protocol No	— at the side	10 mm
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- 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 Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1 000 000 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	• for live parts	
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downwards	— 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 Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1 000 000 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 PROFISafe protocol No protocol is supported No	— upwards	50 mm
type of electrical connection	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 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 • PROFIsafe protocol protocol is supported AS-Interface protocol No	57 107 5105	10 mm
• for main current circuit • for auxiliary and control circuit Safety related data proportion of dangerous failures • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 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 PROFIsafe protocol protocol is supported AS-Interface protocol No	Connections/ Terminals	
for auxiliary and control circuit Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 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 PROFIsafe protocol protocol is supported AS-Interface protocol No No	type of electrical connection	
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proportion of dangerous failures • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 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 • PROFIsafe protocol protocol is supported AS-Interface protocol No	•	screw-type terminals
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B10 value with high demand rate according to SN 31920 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 PROFIsafe protocol No protocol is supported AS-Interface protocol No	proportion of dangerous failures	
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 PROFIsafe protocol No protocol is supported AS-Interface protocol No	with high demand rate according to SN 31920	73 %
PROFIsafe protocol protocol is supported PROFIsafe protocol PROFIsafe protocol No PROFIsafe protocol No	B10 value with high demand rate according to SN 31920	1 000 000
protocol is supported • PROFINET IO protocol No • PROFIsafe protocol No protocol is supported AS-Interface protocol No	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
PROFINET IO protocol PROFIsafe protocol No Protocol is supported AS-Interface protocol No	Communication/ Protocol	
● PROFIsafe protocol protocol is supported AS-Interface protocol No	protocol is supported	
protocol is supported AS-Interface protocol No	 PROFINET IO protocol 	No
	PROFIsafe protocol	No
Approvals Certificates	protocol is supported AS-Interface protocol	No
	Approvals Certificates	

For use in hazardous locations

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other

Railway

Dangerous Good







Confirmation

Vibration and Shock

Transport Information

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2210-0HD15-2BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0HD15-2BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0HD15-2BB4

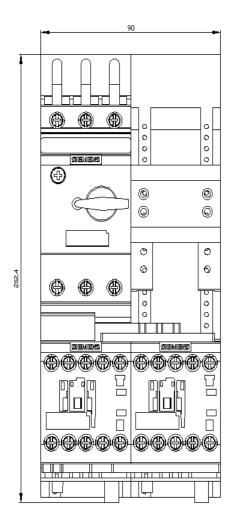
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

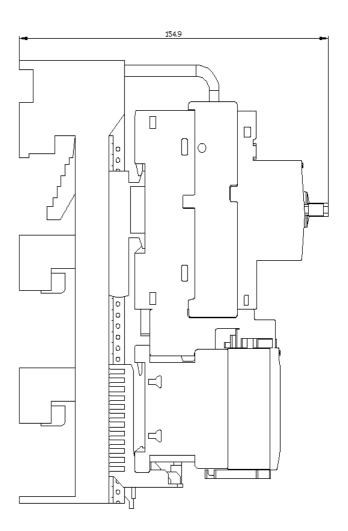
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0HD15-2BB4&lang=en

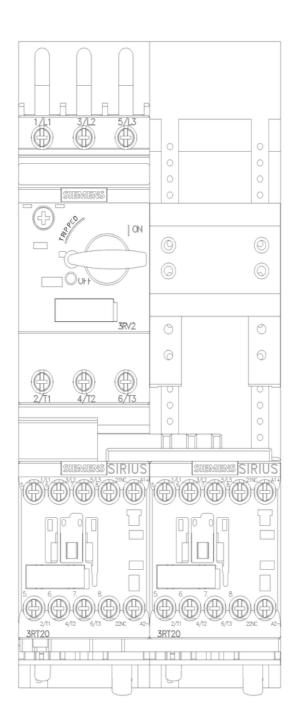
Characteristic: Tripping characteristics, I²t, Let-through current

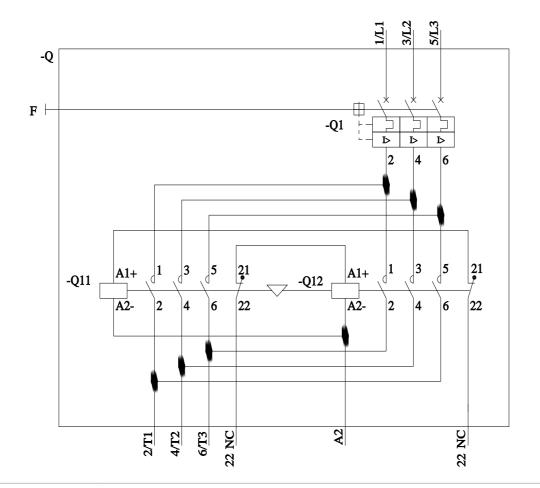
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0HD15-2BB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0HD15-2BB4&objecttype=14&gridview=view1









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