SIEMENS

Data sheet

3RA2210-1JE16-2BB4



Load feeder fuseless, Reversing duty 400 V AC, Size S00 7.00...10.0 A 24 V DC Spring-type terminal for installation on standard mounting rail Type of coordination 1, Iq = 150 kA 1 NC (contactor)

product designation design of the product for standard rail or screw mounting product type designation spread type designation spread type designation of the supplied contactor of the supplied contactor of the supplied circuit-breakers of the supplied circuit-breakers of the supplied circuit-breakers of the supplied circuit-breaker size of the circuit-breaker size of load feeder power loss [W] for rated value of the current of at AC in hot operaling state per pole willhout load current share typical will insulation voltage with degree of pollution 3 at AC rated value of the surge voltage resistance rated value of the surge voltage resistance rated value of the surge voltage resistance rated value of protection NEMA rating shock resistance according to IEC 60068-2-27 of Jr Ims surge voltage resistance rated value 1 type of protection according to ATEX directive 2014/34/EU of Designation of the surger share protection according to ATEX directive 2014/34/EU of Cartex political control of the current of	product brand name	SIRIUS
design of the product product type designation 3RA22 anulacturer's article number of the supplied contactor 3RT2016-2BB42 art the supplied circuit-breakers art the supplied circuit-breaker art the supplied circuit-breaker art the size of the circuit-breaker art the size of the circuit-breaker art the size of the circuit-breaker art the size of load feeder soo power loss [W] for rated value of the current at the into operating state per pole without load current share typical art the subdition voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value are protection NEMA rating shock resistance according to IEC 60088-2-27 gg /11 ms mechanical service life (operating cycles) of contactor typical type of assignment 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) Ambient temperature during storage during storage during transport during storage during storage during transport art for C during transport additions ambient temperature during transport art for C celetive humidity during operation 10 95 % Main circuit mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage a rated value at AC-3 rated value maximum 690 V	product designation	Reversing starter
product type designation manufacturer's article number of the supplied circuit-breakers of the supplied circuit-breakers of the supplied ink module 3RA2911-2AA00 General tochnical data size of the circuit-breaker size of the supplied circuit-breaker size of the s	design of the product	for standard rail or screw mounting
of the supplied contactor of the supplied circuit-breakers of the supplied link module 3RA2911-1JA20 General technical data size of the circuit-breaker size of the circuit-breaker size of load feeder power loss [W] for rated value of the current of the AC in hot operating state per pole without load current share typical without load current share typical surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical surge of protection AEMA rating shock resistance according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU preference code according to ATEX directive 2014/34/EU preference code according to IEC 81346-2:2019 Quustance Prohibitance (Date) Ambient conditions ambient temperature during storage during storage during storage during transport storage during transport storage during transport storage storage during transport storage during transport storage storage storage during transport storage storage storage storage during transport storage stor		3RA22
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of the supplied link module General technical data size of the circuit-breaker size of toad feeder soo power loss [W] for rated value of the current		3RT2016-2BB42
size of the circuit-breaker size of load feeder power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 69 / 11 ms mechanical service life (operating cycles) of contactor typical stype of assignment 1 type of assignment 1 type of protection according to AEX directive 2014/34/EU certificate of suitability according to AEX directive 2014/34/EU certificate of suitability according to AEX directive 2014/34/EU Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation • during storage • during storage • during transport temperature compensation 10 +80 °C temperature compensation 20 +80 °C temperature compensation 10 +95 % Main circuit number of poles for main current circuit design of the switching contact dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	of the supplied circuit-breakers	3RV2011-1JA20
size of the circuit-breaker size of load feeder soo power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical surge voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 690 V surge voltage resistance rated value 690 V shock resistance according to IEC 60068-2-27 69 /11 ms mechanical service life (operating cycles) of contactor typical 10 type of assignment 11 type of protection according to ATEX directive 2014/34/EU 20 certificate of suitability according to ATEX directive 2014/34/EU 20 perfile of suitability according to ATEX directive 2014/34/EU 20 perfile of suitability according to ATEX directive 2014/34/EU 20 perfile of suitability according to ATEX directive 2014/34/EU 20 perfile of suitability according to ATEX directive 2014/34/EU 20 perfile of suitability according to ATEX directive 2014/34/EU 20 perfile of suitability according to ATEX directive 2014/34/EU 30 perfile of suitability according to ATEX directive 2014/34/EU 4 buring operation 4 curing operation 4 curing operation 4 curing storage 4 during transport 5 curing operation 5 curing operation 20 curing operation 20 curing to response value current circuit 4 design of the switching contact 4 adjustable current response value current of the current-dependent overload release operating voltage 4 rated value 4 aC-3 rated value maximum 690 V	of the supplied link module	3RA2911-2AA00
size of load feeder power loss [W] for rated value of the current at AC in hot operating state per pole without load current share typical insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 66 kV degree of protection NEMA rating other shock resistance according to IEC 60068-2-27 69 / 11 ms mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 type of protection according to ATEX directive 2014/34/EU 2 EX II (2) GD certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature during operation -20 +60 °C during storage -50 +80 °C -50 +80 °C temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage - rated value - at AC-3 rated value maximum 690 V	General technical data	
power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 6 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 1 type of assignment 1 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport -50+80 °C temperature compensation -20+60 °C relative humidity during operation 1095 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	size of the circuit-breaker	S00
• at AC in hot operating state per pole • without load current share typical • surge voltage resistance rated value • 68 V • degree of protection NEMA rating • other shock resistance according to IEC 60068-2-77 • 6g / 11 ms mechanical service life (operating cycles) of contactor typical • 30 000 000 • type of assignment • type of protection according to ATEX directive 2014/34/EU reference code according to ATEX directive 2014/34/EU reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport • during transport • during transport • during transport • 20 +60 °C • during transport • 10 +80 °C • during transport • 20 +60 °C relative humidity during operation • 10 95 % Main circuit adjustable current response value current of the current-dependent overload release • rated value • rated value • rated value maximum 690 V	size of load feeder	S00
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 1 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 Ambient conditions ambient temperature 4 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 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release 690 V e at AC-3 rated value 690 V	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value degree of protection NEMA rating 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 1 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature during operation during storage during transport eduring transport temperature compensation relative humidity during operation Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release e rated value e at AC-3 rated value maximum 690 V	 at AC in hot operating state per pole 	3.4 W
surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical 30 000 000 type of assignment 1 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature	 without load current share typical 	4 W
degree of protection NEMA rating shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 1 type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to IEC 81346-2:2019 Certificate of suitability according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport temperature compensation -20 +60 °C • during transport -50 +80 °C temperature compensation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum other conditions overlage of the suitching contact 690 V 690 V	insulation voltage with degree of pollution 3 at AC rated value	690 V
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 1 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 Ambient conditions ambient temperature	surge voltage resistance rated value	6 kV
mechanical service life (operating cycles) of contactor typical type of assignment type of protection according to ATEX directive 2014/34/EU 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 Ambient conditions ambient temperature	degree of protection NEMA rating	other
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type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport • during transport temperature compensation -20 +60 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum Ex II (2) GD DMT 02 ATEX F 001 C SII (2) GD DMT 02 ATEX F 001 DMT 02 ATEX F 001 DMT 02 ATEX F 001 TO II (2) GD DMT 02 ATEX F 001 TO II (2) GD DMT 02 ATEX F 001 To II (2) GD DMT 02 ATEX F 001 Ex II (2) GD DMT 02 ATEX F 001 To II (2) GD DMT 02 ATEX F 001 To II (2) GD DMT 02 ATEX F 001 To II (2) GD DMT 02 ATEX F 001 To II (3) Guessian Foot II (4)	mechanical service life (operating cycles) of contactor typical	30 000 000
certificate of suitability according to ATEX directive 2014/34/EU reference code according to IEC 81346-2:2019 Q Substance Prohibitance (Date) Ambient conditions ambient temperature	type of assignment	1
reference code according to IEC 81346-2:2019 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport • during transport • during transport • -50 +80 °C temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 10/01/2009 20 +60 °C -20 +60 °C -50 +80 °C -50 +8	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport • during transport temperature compensation relative humidity during operation number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 1-20 +60 °C -20 +80 °C -20 +60 °C	certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
ambient temperature • during operation • during storage • during transport • during transport • during transport • during transport • -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 design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	reference code according to IEC 81346-2:2019	Q
ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C -50 +80 °C temperature compensation -20 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum -20 +60 °C -50 +80 °C -50 +60 °C -70 +	Substance Prohibitance (Date)	10/01/2009
 during operation during storage during transport 50 +80 °C temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum rated value maximum rated value of current contact design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage operating voltage	Ambient conditions	
 during storage 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 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V 	ambient temperature	
■ during transport	during operation	-20 +60 °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 operating voltage • rated value • at AC-3 rated value maximum -20 +60 °C 10 95 % electromechanical 7 10 A 690 V	during storage	-50 +80 °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 operating voltage • rated value • at AC-3 rated value maximum 10 95 % 8 6 6 6 6 7 10 A 6 6 6 6 7 6 6 7 6 6 7 6 6	during transport	-50 +80 °C
Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	temperature compensation	-20 +60 °C
number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum electromechanical 7 10 A 690 V	relative humidity during operation	10 95 %
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum electromechanical 7 10 A 690 V	Main circuit	
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 7 10 A 690 V 690 V	number of poles for main current circuit	3
dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V	design of the switching contact	electromechanical
 rated value at AC-3 rated value maximum 690 V 690 V 		7 10 A
• at AC-3 rated value maximum 690 V	operating voltage	
	• rated value	690 V
• at AC-3e rated value maximum 690 V	• at AC-3 rated value maximum	690 V
	 at AC-3e rated value maximum 	690 V

anausting fraguency rated walva	50 60 H -
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	9 A
at AC-3e at 400 V rated value	9 A
operating power	
• at AC-3	
— at 400 V rated value	4 000 W
• at AC-3e	
— at 400 V rated value	4 000 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
• rated value	24 24 V
holding power of magnet coil at DC	4 W
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	130 A
	100 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	7.6 A
at 600 V rated value	7.6 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the 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	vertical
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	204 mm
width	90 mm
	90 mm
depth required spacing	<i>31</i> 111111
required spacing	
• for grounded parts	22
— 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
— upwards	50 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
-yp	

 for main current circuit 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with high demand rate according to SN 31920 	73 %
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
Certificates/ approvals	
Ganaral Braduct Approval	For use in hazard-

Confirmation

General Product Approval







ous locations



Declaration of Conformity



Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping





Confirmation

other

Vibration and Shock

Railway

Transport Information

Dangerous Good

Further 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=3RA2210-1JE16-2BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-1JE16-2BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1JE16-2BB4

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

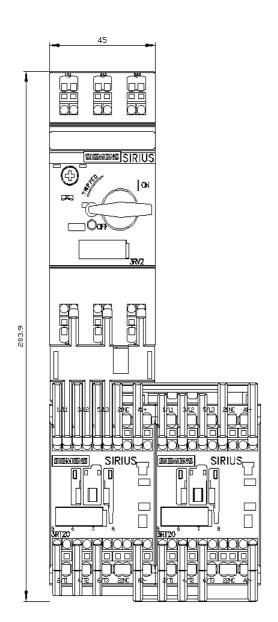
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1JE16-2BB4&lang=en

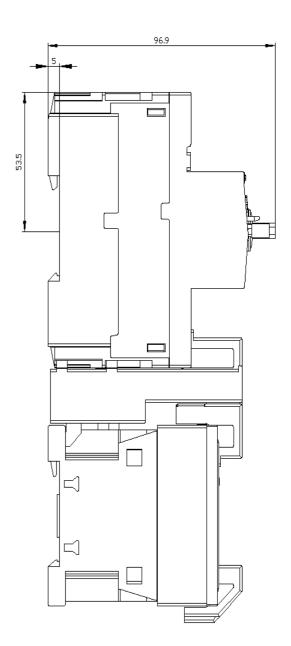
Characteristic: Tripping characteristics, I2t, Let-through current

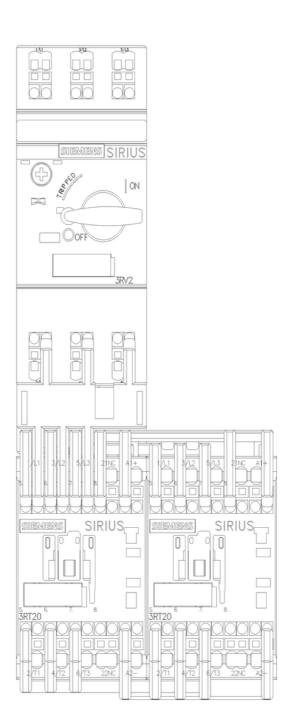
https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1JE16-2BB4/char

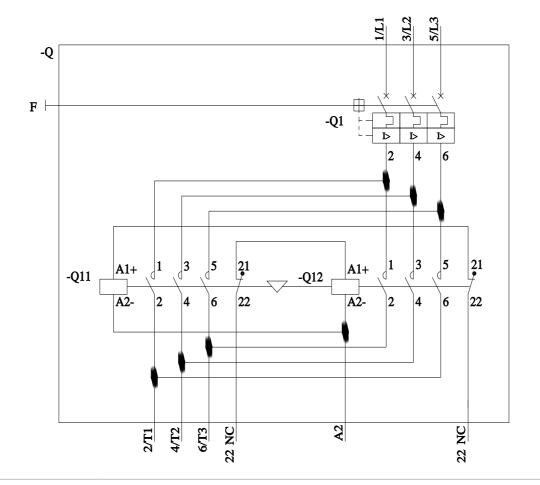
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1JE16-2BB4&objecttype=14&gridview=view1









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