## SIEMENS

## Data sheet

## 3RA2215-1FA15-2BB4



Fuseless motor starter Reversing operation 600VAC Size S00 3.5-5A 24V DC screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 1 1NO+1NC (MSP) 1NC (per contactor)

product brand name         SIRUS           product designation         non-fused motor starts 3RA2           design of the product         reversing starter           manufacturer's article number         SIRU015-1BB42           • of the supplied circuit-breakers         SRU2011-1FA15           • of the supplied circuit-breakers         SRU2011-1FA15           • of the supplied ink module         SRU2011-1FA15           • of the circuit-breaker         S00           size of the circuit-breaker         S00           size of the circuit-breaker         S00           insulation voltage with degree of pollution 3 at AC rated value         690 V           degree of pollution         3           surge voltage resistance rated value         6 kV           shock resistance according to IEC 60068-2-27         6g /11 ms           mechanical service life (operating cycles) of contactor typical         30000 000           type of assignment         1           Weight         0.93 kg           Ambient conditions		
design of the product     reversing starter       manufacturor's article number     RT2015-18B42       • of the supplied circuit-breakers     BRV2011-1FA15       • of the supplied ink module     BRA1921-1DA00       Gonard tachnical data	product brand name	SIRIUS
manufacturer's article number     BR12015-18B42       • of the supplied contactor     BR12011-1FA15       • of the supplied full-treakers     BR2011-1FA15       • of the supplied full-treakers     BR2011-1FA15       size of the circuit-breaker     S00       size of the circuit-breaker     S00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     690 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance according to IEC 60068-2-27     6g / 11 ms       mechanical service life (operating cycles) of contactor typical     30 000 0000       type of assignment     1       Weight     0.93 kg       Amblent conditions     -20 +60 °C       • during operation     -20 +60 °C       • during transport     -55 +80 °C       Main circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-     35 5 A       operating royotage     -50 +80 °C       • at AC-3 rated value     690 V       • at AC-3 rated value     36 A       operating rowerd release     50 60 Hz       operating rower at AC-3     1500 W       • at 400 V rated value	product designation	non-fused motor starter 3RA2
• of the supplied icruit-breakers     SRT2015-18B42       • of the supplied icruit-breakers     SRX2011-1FA15       • of the supplied ink module     SRA1921-1DA00       Central technical data     SRA1921-1DA00       Size of the circuit-breaker     S00       size of the circuit-breaker     S00       rinsultion voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance according to IEC 60068-2-27     6g / 11 ms       mechanical service life (operating cycles) of contactor typical     3000000       type of assignment     1       Weight     0.93 kg       Ambient conditions     -20 +60 °C       • during operation     -20 +60 °C       • during itransport     -55 +80 °C       • during itransport     3       Insultion voltage of the current of the current.     600 V       design of the switching contact     electomechanical       adjustable current response value current of the current.     35 5 A       operating rolenges     -50 480 °C       • rated value     600 V       • at AC-3 rated value     36 A       operating rolengency rated value     36 A       operating rolengency rated value     36 A       operating	design of the product	reversing starter
	manufacturer's article number	
• of the supplied link module             SRA19221-1DA00            General technical data           size of the circuit-breaker             S00            product extension auxiliary switch          Yes           Insulation voltage with degree of pollution 3 at AC rated value             600 V          600 V            degree of pollution          3            surge voltage 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            Weight          0.93 kg          Ambient temperature                 e during operation          -20            +60 °C          -                 during transport          -20            +60 °C          -                 during transport          -20            +60 °C          -             during transport                 during transport          -20            +60 °C          -             during transport                 during transport          -20            +60 °C          -             during transport                 vining operation             vinin current circuit	<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2015-1BB42</u>
General technical data     S00       size of the circuit-breaker     S00       size of load feeder     S00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     68 kV       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       Weight     0.93 kg       Ambient conditions     -20 +60 °C       • during operation     -20 +60 °C       • during operation     -20 +60 °C       • during operation     -20 +60 °C       • during transport     -55 +80 °C       Main circuit     1       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-dependent vortoad release     35 5 A       operating voltage     690 V       • at AC-3 rated value     690 V       • at 40 V rated value     3.6 A       operating power at AC-3     400 V rated value       • at 400 V rated value     1500 W       • at 400 V rated value     1500 W	<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-1FA15</u>
size of the circuit-breaker     \$00       size of load feeder     \$00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     \$60 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance according to IEC 60068-2-27     \$6g / 11 ms       mechanical service life (operating cycles) of contactor typical     \$000000       type of assignment     1       Weight     0.93 kg       Ambient conditions     ambient temperature       • during operation     -20 +60 °C       • during storage     -55 +80 °C       Main circuit     3       number of poles for main current circuit     3       degred or value delate     \$00 V       • during torage     -55 +80 °C       Main circuit     3       number of poles for main current circuit     3       dependent overload release     000 V       • at AC-3 rated value     \$00 V       • at AC-3 rated value     \$00 V       • at 400 V rated value     \$20 W       Control supply voltage at DC rated value     \$24 V	<ul> <li>of the supplied link module</li> </ul>	<u>3RA1921-1DA00</u>
size of load feeder     S00       product extension auxiliary switch     Yes       insulation voitage with degree of pollution 3 at AC rated value     690 V       degree of pollution     3       surge voitage resistance rated value     6 kV       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       Weight     0.93 kg       Ambient conditions     -       ambient temperature     -       • during poration     -20 +60 °C       • during torage     -50 +80 °C       • during torage     -50 +80 °C       • during torage     -50 +80 °C       • during torage     -55 +80 °C       • during torage     -50 +80 °C       • at active till     3       operating voltage     -50 +80 °C       • during torage     -55 +80 °C       • at do value     690 V       • at act value     30 60 Hz	General technical data	
Include detension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     690 V       degree of pollution     3       surge voltage resistance rated value     6 kV       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       Weight     0.93 kg       Ambient conditions     -20 +60 °C       a during storage     -50 +80 °C       • during storage     -50 +80 °C       • during storage     -55 +80 °C       Main circuit     3       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-     25 5 A       operating rotage     50 60 Hz       operating rotage     50 60 Hz       operating nower at AC-3     400 V rated value       operating nower at AC-3     1       • at 400 V rated value     1500 W       • at 400 V rated value     2200 W       Control circuit/ Control     2200 W       Control supply voltage at DC rated value     24 V       • holding power of magnet coil at DC     4 W	size of the circuit-breaker	S00
insulation voltage with degree of pollution 3 at AC rated value       690 V         degree of pollution       3         surge voltage resistance rated value       6 kV         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         Weight       0.93 kg         Ambient conditions       -         amblent temperature       -         • during storage       -50 +60 °C         • during transport       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current-       defor V         operating voltage       5 A         operating voltage       690 V         • at AC-3 rated value       690 V         • at AO-3 rated value       50 60 Hz         operating requency rated value       3.6 A         operating power at AC-3       400 V rated value         • at 400 V rated value       2.60 W         • at 400 V rated value       2.00 W         control supply voltage at DC rated value	size of load feeder	S00
degree of pollution       3         surge voltage resistance rated value       6 kV         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         Weight       0.93 kg         Ambient conditions       -         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during transport       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         deging of the switching contact       electromechanical         adjustable current response value current of the current-dependent overload release       690 V         • at AC-3 rated value       690 V         • at AC-3 rated value       50 60 Hz         operating frequency rated value       3.6 A         operating power at AC-3       1 500 W         • at AO V rated value       2 200 W         Control circuit/ Control       2 200 W         Control circuit/ Control       4 W	product extension auxiliary switch	Yes
surge voltage resistance rated value       6 kV         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         Weight       0.93 kg         Ambient conditions       -         ambient temperature       -         • during operation       -20 +60 °C         • during transport       -55 +80 °C         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       690 V         operating voltage       50 60 Hz         operating frequency rated value       50 60 Hz         operating power at AC-3       -         • at 400 V rated value       1500 W         • at 400 V rated value       200 W         Control circuit Control       -         control circuit Querent circuit       -         operating now rat AC-3       -         • at 400 V rated value       200 W         control circuit Y control       -         control supply voltage at DC rated value       24 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         Weight       0.93 kg         Ambient conditions	degree of pollution	3
mechanical service life (operating cycles) of contactor typical       30 000 000         type of assignment       1         Weight       0.93 kg         Ambient conditions	surge voltage resistance rated value	6 kV
type of assignment       1         Weight       0.93 kg         Ambient conditions	shock resistance according to IEC 60068-2-27	6g / 11 ms
Weight       0.93 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -55 +80 °C         Main circuit       3         rumber of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current response value current of the current-       3.5 5 A         operating voltage       -         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3       -         • at 400 V rated value       2 200 W         Control circuit/ Control       2 200 W	mechanical service life (operating cycles) of contactor typical	30 000 000
Ambient conditions         ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -55 +80 °C         Main circuit       3         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       5 A         • at AC-3 rated value maximum       690 V         • operating frequency rated value       50 60 Hz         operating power at AC-3       60 Hz         operating power at A	type of assignment	1
ambient temperature• during operation-20 +60 °C• during storage-50 +80 °C• during transport-55 +80 °CMain circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release3.5 5 Aoperating voltage690 V• at AC-3 rated value690 V• at AC-3 rated value50 60 Hzoperating power at AC-3-50 60 Hz• at 400 V rated value1 500 W• at 400 V rated value2 200 WControl circuit/ Control24 Vholding power of magnet coil at DC24 V	Weight	0.93 kg
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-55 +80 °CMain circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release35 5 Aoperating voltage690 V• at AC-3 rated value690 V• at AC-3 rated value50 60 Hzoperating frequency rated value3.6 Aoperating power at AC-31 500 W• at 400 V rated value1 500 W• at 500 V rated value2 200 WControl circuit/ Control24 Vholding power of magnet coil at DC24 V	Ambient conditions	
• during storage       -50 +80 °C         • during transport       -55 +80 °C         Main circuit       3         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       3.5 5 A         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3       60 Hz         operating power at AC-3       1 500 W         • at 400 V rated value       1 500 W         • at 500 V rated value       2 200 W         Control supply voltage at DC rated value       24 V         holding power of magnet coil at DC       4 W	ambient temperature	
• during transport       -55 +80 °C         Main circuit       3         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       3.5 5 A         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3       3.6 A         operating power at AC-3       1 500 W         • at 400 V rated value       1 500 W         • at 500 V rated value       2 200 W         Control supply voltage at DC rated value       24 V         holding power of magnet coil at DC       4 W	<ul> <li>during operation</li> </ul>	-20 +60 °C
Main circuit       3         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       35 5 A         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3       at 400 V rated value         • at 400 V rated value       1 500 W         • at 500 V rated value       2 200 W         Control circuit/ Control       2200 W         Control supply voltage at DC rated value       24 V         holding power of magnet coil at DC       4 W	during storage	-50 +80 °C
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       3.5 5 A         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3 at 400 V rated value       3.6 A         operating power at AC-3       1 500 W         • at 400 V rated value       2 200 W         Control supply voltage at DC rated value       24 V         holding power of magnet coil at DC       4 W	<ul> <li>during transport</li> </ul>	-55 +80 °C
design of the switching contact       electromechanical         adjustable current response value current of the current- dependent overload release       3.5 5 A         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3 at 400 V rated value       3.6 A         operating power at AC-3       1 500 W         • at 400 V rated value       1 500 W         • at 500 V rated value       2 200 W         Control supply voltage at DC rated value       24 V         holding power of magnet coil at DC       4 W	Main circuit	
adjustable current response value current of the current- dependent overload release       3.5 5 A         operating voltage       690 V         • rated value       690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operating power at AC-3 at 400 V rated value       3.6 A         operating power at AC-3       1 500 W         • at 400 V rated value       1 500 W         • at 500 V rated value       2 200 W         Control circuit/ Control       24 V         holding power of magnet coil at DC       4 W	number of poles for main current circuit	3
dependent overload releaseoperating voltage• rated value690 V• at AC-3 rated value maximum690 Voperating frequency rated value50 60 Hzoperational current at AC-3 at 400 V rated value3.6 Aoperating power at AC-31 500 W• at 400 V rated value1 500 W• at 400 V rated value2 200 WControl circuit/ Controlcontrol supply voltage at DC rated value24 Vholding power of magnet coil at DC4 W	design of the switching contact	electromechanical
• rated value         690 V           • at AC-3 rated value maximum         690 V           operating frequency rated value         50 60 Hz           operating power at AC-3 at 400 V rated value         3.6 A           operating power at AC-3		3.5 5 A
• at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operational current at AC-3 at 400 V rated value       3.6 A         operating power at AC-3	operating voltage	
operating frequency rated value50 60 Hzoperational current at AC-3 at 400 V rated value3.6 Aoperating power at AC-3-• at 400 V rated value1 500 W• at 500 V rated value2 200 WControl circuit/ Control-control supply voltage at DC rated value24 Vholding power of magnet coil at DC4 W	rated value	690 V
operational current at AC-3 at 400 V rated value       3.6 A         operating power at AC-3       -         • at 400 V rated value       1 500 W         • at 500 V rated value       2 200 W         Control circuit/ Control       -         control supply voltage at DC rated value       24 V         holding power of magnet coil at DC       4 W	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating power at AC-3     1 500 W       • at 400 V rated value     1 500 W       • at 500 V rated value     2 200 W       Control circuit/ Control     24 V       holding power of magnet coil at DC     4 W	operating frequency rated value	50 60 Hz
• at 400 V rated value         1 500 W           • at 500 V rated value         2 200 W           Control circuit/ Control         24 V           holding power of magnet coil at DC         4 W	operational current at AC-3 at 400 V rated value	3.6 A
• at 500 V rated value         2 200 W           Control circuit/ Control         24 V           control supply voltage at DC rated value         24 V           holding power of magnet coil at DC         4 W	operating power at AC-3	
Control circuit/ Control       control supply voltage at DC rated value       24 V       holding power of magnet coil at DC       4 W	<ul> <li>at 400 V rated value</li> </ul>	1 500 W
control supply voltage at DC rated value     24 V       holding power of magnet coil at DC     4 W	• at 500 V rated value	2 200 W
holding power of magnet coil at DC 4 W	Control circuit/ Control	
	control supply voltage at DC rated value	24 V
Auxiliary circuit	holding power of magnet coil at DC	4 W
	Auxiliary circuit	

number of NC contacts for auxiliany contacts	2
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	1
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	65 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
• at 600 V rated value	4.55 A
yielded mechanical performance [hp]	
• for single-phase AC motor	0.17 hp
- at 110/120 V rated value	0.17 hp
— at 230 V rated value	0.5 hp
for 3-phase AC motor     at 200/208 \/ rated value	1 hp
- at 200/208 V rated value	1 hp
- at 220/230 V rated value	1 hp
- at 460/480 V rated value	3 hp
- at 575/600 V rated value	3 hp
Short-circuit protection	Vee
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	450,000 A
• at 400 V according to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height	170 mm
width	90 mm
depth	97.1 mm
required spacing	
for grounded parts	
— forwards	0 mm
— backwards	0 mm
— upwards	20 mm
— at the side	9 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	20 mm
— downwards	10 mm
— at the side	9 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts stranded	0.5 4 mm², 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts finely	0.5 2.5 mm²
stranded with core end processing	0.0 2.0 mm
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
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
	For use in hazard-
General Product Approval	ous locations

CE EG-Konf.	UK CA	<u>Confirmation</u>		EAC	ATEX ATEX
Test Certificates		Marine / Shipping			
Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		Lloyds Register us
Marine / Shipping			other	Railway	Dangerous goods
PRS	RINA	RMRS	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Transport Information
Environment					
Environmental Con- firmations					

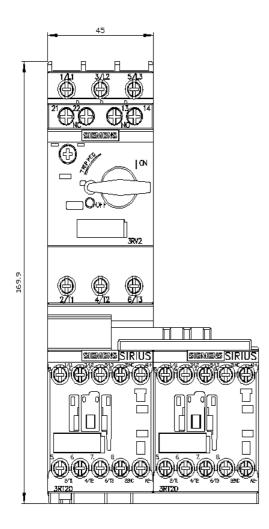
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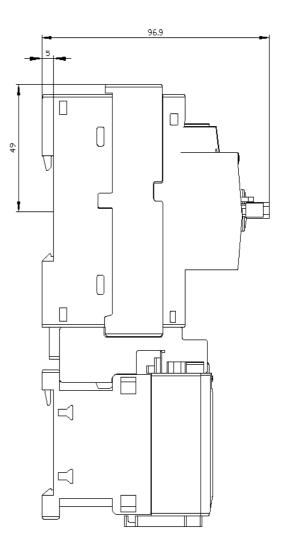
Information on the packaging

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) all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2215-1FA15-2BB4 https://m Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2215-1FA15-2BB4 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1FA15-2BB4 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2215-1FA15-2BB4&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

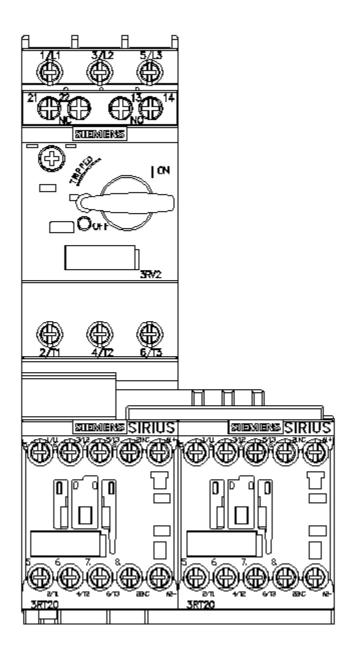
https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1FA15-2BB4/char

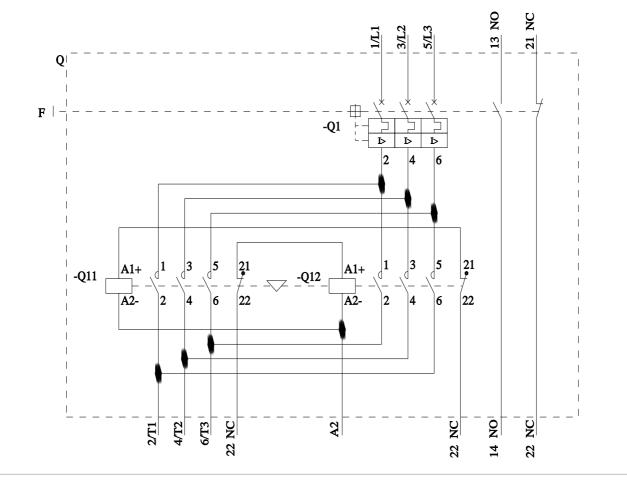
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2215-1FA15-2BB4&objecttype=14&gridview=view1





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