# **SIEMENS**

#### **Data sheet**

### 3RA2215-1AA15-2BB4



Fuseless motor starter Reversing operation 600VAC Size S00 1.1-1.6A 24V DC screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NC (per contactor)

product brand name   SIRUS   product designation   non-fused motor starter SRA2   design of the product   reversing starter   manufacturer's article number   • of the supplied circuit-breakers   SRV2011-1AA15   • of the supplied circuit-breakers   SRV2011-1AA15   • of the supplied circuit-breakers   SRV2011-1AA15   • of the supplied 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 60088-2-27   8g / 11 ms   mechanical service life (operating cycles) of contactor typical   30 000 000   Weight   0.93 kg   Ambient conditions   ambient temperature   4 uring operation   20 +60 °C   • during operation   20 +60 °C   • during transport   25 +80 °C   • during transport   5-5 +80 °C   • during transport   1.1 1.6 A   design of the switching contact   electromechanical   adjustable current response value current of the current-dependent overload release   • 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   550 W   • at 600 V rated value   500 control supply voltage at DC rated value   • at 600 V rated value   550 W   •		
design of the product manufacturer's article number  of the supplied circuit-breakers of the supplied circuit-breakers of the supplied link module garanger of the circuit-breaker size of the circuit	product brand name	SIRIUS
manufacturer's article number  of the supplied contactor of the supplied contactor of the supplied contactor of the supplied dirult-breakers of the supplied link module 3RA1921-1DA00  General technical data  size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of toad feeder product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 6 kW shock resistance according to IEC 60068-2-27 gg / 11 ms mechanical service life (operating cycles) of contactor typical 30 0000 000  type of assignment 2 Weight 0.93 kg Ambient conditions  ambient temperature during operation during storage 5-50+80 °C  during transport 5-5+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 at AC-3 rated value at AC-3 rated value at AC-3 at 400 V rated value 550 W at 650 W at 650 V rated value 550 W at 600 V rated value 550 W control circuit/Control  control supply voltage at DC rated value 544 V	product designation	non-fused motor starter 3RA2
of the supplied contactor     of the supplied circuit-breakers     of the supplied circuit-breakers     of the supplied ink module     SRA1921-1DA00  General technical data  size of the circuit-breaker     soo     size of load feeder     product extension auxiliary switch     resultation voltage with degree of pollution 3 at AC rated value     degree of pollution     3     surge voltage resistance rated value     6 kV     shock resistance according to IEC 60068-2-27     mechanical service life (operating cycles) of contactor typical     30 000 000      Weight     0.93 kg  Ambient conditions  ambient temperature     during operation     during storage     during transport     during transport  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 frequency rated value     at AC-3 rated value     at AC-3 rated value     at 4600 v rated value     at 500 v rated value     at 400 v rated value     at 500 v rated value     control supply voltage at DC rated value	design of the product	reversing starter
of the supplied circuit-breakers of the supplied link module  SRA1921-1DA00  Ceneral technical data  size of the circuit-breaker  Size of load feeder Size of load feeder Size of load feeder Size of load feeder Size of the circuit-breaker Size of the circuit-breaker Size of the circuit-breaker Size of load feeder Size of loa	manufacturer's article number	
of the supplied link module     Size of the circuit-breaker     size of the circuit-breaker     size of toad feeder     product extension auxiliary switch     yes     insulation voltage with degree of pollution 3 at AC rated value     degree of pollution     3     surge voltage resistance rated value     shock resistance according to IEC 60068-2-27     mechanical service life (operating cycles) of contactor typical     ypo of assignment     2     Weight	<ul> <li>of the supplied contactor</li> </ul>	3RT2015-1BB42
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 690 V degree of pollution 3 surge voltage resistance rated value 6kV 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 Weight 0.93 kg Ambient conditions ambient temperature • during storage • 50 +80 °C • during storage • 55 +80 °C • during transport 5 +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 operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2011-1AA15
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 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 2  Weight 0.93 kg  Ambient conditions  ambient temperature  • during operation 2-20 +60 °C • during storage 5-50 +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  operating voltage • rated value 690 V  operating frequency rated value 50 60 Hz  operating frequency rated value 550 W  • at 400 V rated value 550 W  • at 690 V rated value 500 W	<ul> <li>of the supplied link module</li> </ul>	3RA1921-1DA00
size of load feeder 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 30 000 000 type of assignment 2 Weight 0.93 kg Ambient conditions  ambient temperature	General technical data	
product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value shock resistance according to IEC 60068-2-27 (Bg / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2 Weight 0.93 kg  Ambient conditions  ambient temperature during operation during storage during storage during transport 0.55 +80 °C  during transport 0.55 +80 °C  design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage read value at AC-3 rated value maximum 090 V  operating frequency rated value operating power at AC-3 e at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value 550 W at 690 V rated value 1.5 A Control circuit/ Control control supply voltage at DC rated value	size of the circuit-breaker	S00
Insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 a 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 2 Weight 0.93 kg  Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -55 +80 °C • dur	size of load feeder	S00
degree of pollution  surge voltage resistance rated value 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  Weight 0.93 kg  Ambient conditions  ambient temperature • during operation • during storage • during storage • during transport  1.55 +80 °C  Main circuit  number of poles for main current circuit 3 design of the switching contact dependent overload release operating voltage • rated value • at AC-3 areted value • at AC-3 areted value • at 400 V rated value • at 500 V V rated value • at 500 V V rated value • at 500 V rated value	product extension auxiliary switch	Yes
surge voltage resistance rated value shock resistance according to IEC 60068-2-27 feethanical service life (operating cycles) of contactor typical weight 2 Weight 0.93 kg  Ambient conditions  ambient temperature during operation during storage during transport -50 +80 °C  -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 at AC-3 rated value at AC-3 rated value poperating frequency rated value at 690 V operating frequency rated value at 690 V rated value at 690 V rated value 550 W at 550 W at 500 V rated value 1.5 A Operating power at AC-3 at 690 V rated value at 690 V rated value 550 W at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 at 690 V rated value 1.5 A Operating power at AC-3 1.7 A Operating power at AC-3 1.8 Operating power at AC-3 1.9 A Operating po	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 2 Weight 0.93 kg  Ambient conditions  ambient temperature	degree of pollution	3
mechanical service life (operating cycles) of contactor typical type of assignment  2  Weight 0.93 kg  Ambient conditions  ambient temperature • during operation • during storage • during transport  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 operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V vated value • at 690 V vated value • at 690 V vated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V vated value	surge voltage resistance rated value	6 kV
type of assignment 0.93 kg  Ambient conditions  ambient temperature  • during operation -20 +60 °C • during storage -55 +80 °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  operating voltage  • 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 550 W  • at 500 V rated value 550 W  • at 690 V rated value 550 W	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  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 690 V  operating frequency rated value 50 60 Hz  operating power at AC-3 at 400 V rated value 1.5 A  operating power at AC-3  • at 400 V rated value 550 W  • at 690 V rated value 540 W	mechanical service life (operating cycles) of contactor typical	30 000 000
Ambient temperature  • during operation • during storage • during transport  -50 +80 °C • during transport  -55 +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  operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value  operating power at AC-3 • at 400 V rated value • at 690 V rated value • at 690 V rated value  operating power at AC-3 • at 400 V rated value • 1.5 A  operating power at AC-3 • at 400 V rated value • 550 W • at 690 V rated value • 100 W  Control circuit/ Control control supply voltage at DC rated value	type of assignment	2
ambient temperature  • during operation  • during storage  • during transport  -50 +80 °C  • during transport  -55 +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  operating frequency rated value  operating frequency rated value  operating power at AC-3  • at 400 V rated value  • at 550 W  • at 500 V rated value  • at 690 V rated value  1.5 A  operating power at AC-3  • at 400 V rated value  • at 690 V rated value  • at 690 V rated value  • at 690 V rated value  • at 550 W  • at 500 V rated value  • at 690 V rated value  • 24 V	Weight	0.93 kg
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>-50 +80 °C</li> <li>during transport</li> <li>-55 +80 °C</li> </ul> Main circuit number of poles for main current circuit <ul> <li>design of the switching contact</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>50 60 Hz</li> <li>operating power at AC-3</li> <li>at 400 V rated value</li> <li>at 550 W</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>550 W</li> <li>at 690 V rated value</li> <li>at 700 W</li> </ul>	Ambient conditions	
• during storage     • during transport      755 +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  operating frequency rated value  operating power at AC-3  • at 400 V rated value  • at 550 W  • at 690 V rated value  550 W  • at 690 V rated value  1.5 A  operating power at AC-3  • at 400 V rated value  • at 690 V rated value  550 W  • at 690 V rated value  550 W  • at 690 V rated value  550 W  • at 690 V rated value  24 V	ambient temperature	
oduring transport      oduring transport      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	<ul> <li>during operation</li> </ul>	-20 +60 °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  operating frequency rated value  operational current at AC-3 at 400 V rated value  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  550 W  • at 690 V rated value	during storage	-50 +80 °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  operating frequency rated value  operating a t AC-3 at 400 V rated value  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 500 V rated value  • at 690 V rated value	during transport	-55 +80 °C
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  operating frequency rated value  operational current at AC-3 at 400 V rated value  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  550 W  • at 690 V rated value  550 W  • at 690 V rated value  24 V	Main circuit	
adjustable current response value current of the current- dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  operating frequency rated value  operational current at AC-3 at 400 V rated value  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  operating power at AC-3  • at 400 V rated value  operating power at AC-3  • at 400 V rated value  operating power at AC-3  • at 400 V rated value  operating power at AC-3  • at 400 V rated value  24 V	number of poles for main current circuit	3
dependent overload release  operating voltage  • rated value  • 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  1.5 A  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 500 V rated value  • at 690 V rated value  24 V	design of the switching contact	electromechanical
<ul> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>50 60 Hz</li> <li>operational current at AC-3 at 400 V rated value</li> <li>1.5 A</li> <li>operating power at AC-3 <ul> <li>at 400 V rated value</li> <li>at 550 W</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>100 W</li> </ul> </li> <li>Control circuit/ Control</li> <li>control supply voltage at DC rated value</li> <li>24 V</li> </ul>		1.1 1.6 A
■ at AC-3 rated value maximum     G90 V     Operating frequency rated value     Operational current at AC-3 at 400 V rated value     Operating power at AC-3     ● at 400 V rated value     ● at 500 V rated value     ● at 690 V rated value     ● at 690 V rated value     Ontrol circuit/ Control     Control supply voltage at DC rated value     24 V	operating voltage	
operating frequency rated value  operational current at AC-3 at 400 V rated value  1.5 A  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  control circuit/ Control  control supply voltage at DC rated value  24 V	rated value	690 V
operational current at AC-3 at 400 V rated value  operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  Control circuit/ Control  control supply voltage at DC rated value  24 V	at AC-3 rated value maximum	690 V
operating power at AC-3  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  Control circuit/ Control  control supply voltage at DC rated value  24 V	operating frequency rated value	50 60 Hz
at 400 V rated value  at 500 V rated value  at 690 V rated value  1 100 W  Control circuit/ Control  control supply voltage at DC rated value  24 V	operational current at AC-3 at 400 V rated value	1.5 A
at 500 V rated value     at 690 V rated value     1 100 W  Control circuit/ Control  control supply voltage at DC rated value  24 V	operating power at AC-3	
at 690 V rated value  Control circuit/ Control  control supply voltage at DC rated value  24 V	• at 400 V rated value	550 W
Control circuit/ Control  control supply voltage at DC rated value 24 V	• at 500 V rated value	550 W
control supply voltage at DC rated value 24 V	• at 690 V rated value	1 100 W
	Control circuit/ Control	
holding power of magnet coil at DC 4 W	control supply voltage at DC rated value	24 V
	holding power of magnet coil at DC	4 W

Auxiliary circuit		
number of NC contacts for auxiliary contacts	2	
number of NO contacts for auxiliary contacts	1	
Protective and monitoring functions		
trip class	CLASS 10	
design of the overload release	thermal (bimetallic)	
response value current of instantaneous short-circuit trip unit	20.8 A	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
at 480 V rated value	1.6 A	
at 600 V rated value	1.3 A	
yielded mechanical performance [hp]		
<ul> <li>for single-phase AC motor</li> </ul>		
— at 230 V rated value	0.1 hp	
• for 3-phase AC motor		
— at 460/480 V rated value	0.75 hp	
— at 575/600 V rated value	0.75 hp	
Short-circuit protection		
product function short circuit protection	Yes	
design of the short-circuit trip	magnetic	
conditional short-circuit current (lq)		
<ul> <li>at 690 V according to IEC 60947-4-1 rated value</li> </ul>	100 000 A	
<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	153 000 A	
at 500 V according to IEC 60947-4-1 rated value	100 000 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	
• for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	20 mm	
— downwards	10 mm	
— at the side	9 mm	
Connections/ Terminals	corou tuno terminale	
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 stranded with core end processing	0.5 2.5 mm²	
Safety related data	70.07	
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		
General Product Approval		For use in hazard- ous locations





Confirmation







**Test Certificates** 

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other Railway

**Environment** 







Confirmation

Special Test Certificate

Environmental Confirmations

#### Further information

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=3RA2215-1AA15-2BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lanq=en&mlfb=3RA2215-1AA15-2BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1AA15-2BB4

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

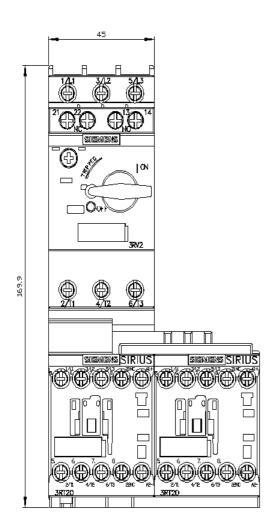
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2215-1AA15-2BB4&lang=en

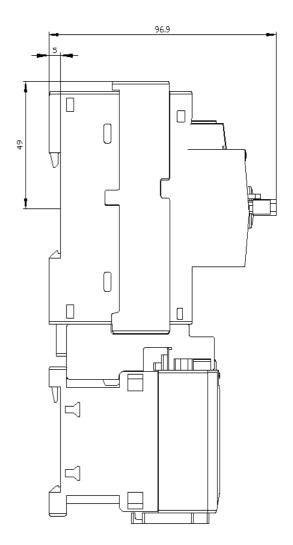
Characteristic: Tripping characteristics, I2t, Let-through current

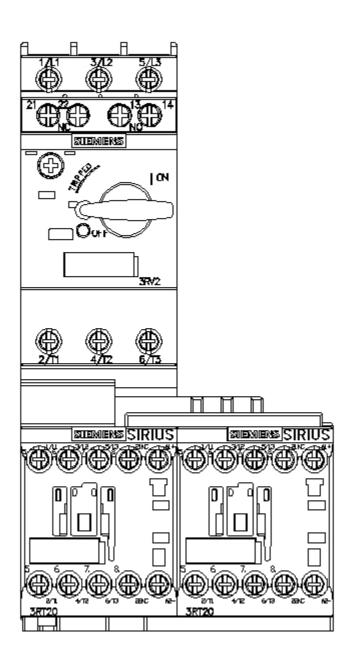
https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1AA15-2BB4/char

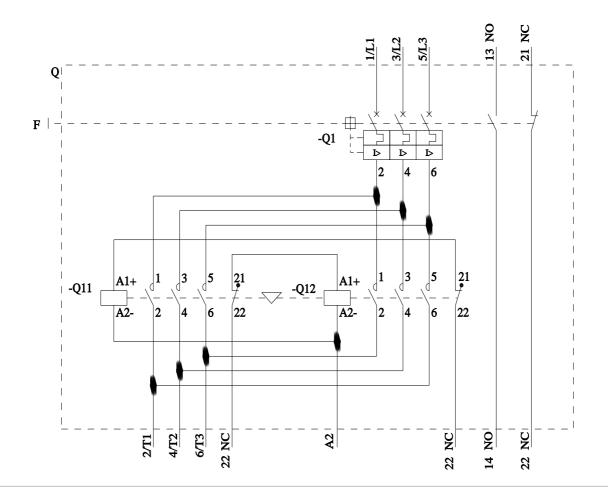
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2215-1AA15-2BB4&objecttype=14&gridview=view1









last modified: 12/15/2020 🖸

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RA22151AA152BB4