# **SIEMENS**

Data sheet 3RT2015-2KB42

Power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC 0.7-1.25  $^{\star}$  US, suppressor diode integrated, 3-pole, Size S00, Spring-type terminal



Product brand name	SIRIUS
Product designation	Coupling relay
Product type designation	3RT2

General technical data	
Size of contactor	S00
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	No
Surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation	
• between coil and main contacts acc. to EN	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms

10,5g / 5 ms, 6,6g / 10 ms
30 000 000
К
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Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
<ul><li>during operation</li></ul>	Railway application: -40 70 °C with 10 mm clearance. See catalog for other rated conditions
during storage	-55 +80 °C

Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-2 at 400 V rated value	7 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
Connectable conductor cross-section in main circuit	
at AC-1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	2.5 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A

Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
Operating current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	0.1 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
Operating power	
● at AC-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V rated value	11 kW
— at 400 V at 60 °C rated value	10.5 kW
— at 690 V rated value	19 kW
— at 690 V at 60 °C rated value	18 kW
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	3 kW

Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  Design of the surge suppressor  Closing power of magnet coil at DC  Holding power of magnet coil at DC  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Control version of the switch operating mechanism  Opening delay  Standard A1 - A2		
	• at AC-3	
- at 500 V rated value	— at 230 V rated value	1.5 kW
Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 000 V for rated value of the operating current per conductor No-load switching frequency • at DC  Operating frequency • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC	— at 400 V rated value	3 kW
Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value 1.15 kW  Thermal short-time current limited to 10 s 56 A  Power loss IVII at AC-3 at 400 V for rated value of the operating requency • at DC  Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum  Too 1/h • at AC-4 maximum • at AC-4 maximum  Too 1/h  Control circuit / Control  Type of voltage of the control supply voltage  Control supply voltage at DC • rated value • rated value  Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value  1.25  Design of the surge suppressor  With suppressor diode  Closing power of magnet coil at DC  Losing delay • at DC  Opening delay • at DC  Opening delay • at DC  Arcing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts • instantaneous contact  Operating current at AC-12 maximum  10 A  Operating current at AC-15	— at 500 V rated value	3 kW
at AC-4  • at 400 V rated value  • at 690 V rated value  1.15 kW  Thermal short-time current limited to 10 s  55 A  Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor  No-load switching frequency  • at DC  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-9 work and a control supply voltage  Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  Design of the surge suppressor  with suppressor diode  Closing power of magnet coil at DC  Losing power of magnet coil at DC  2.8 W  Holding power of magnet coil at DC  2.8 W  Closing delay  • at DC  Arcing time  Type of voltage of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  1 Operating current at AC-12 maximum  10 A  Operating current at AC-12 maximum  10 A	— at 690 V rated value	4 kW
	Operating power for approx. 200000 operating cycles	
at 590 V rated value  Thermal short-time current limited to 10 s  Fower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor  No-load switching frequency  at DC  Operating frequency  at AC-1 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-4 maximum  but AC-4 maximum  at AC-4 maximum  but AC-4 maximum  control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  are ated value  are full-scale value  but suggested at DC  are full-scale value  but suggested at DC  are full-scale value  but suggested at DC  closing power of magnet coil at DC  closing power of magnet coil at DC  closing delay  at DC  are DC  Areing time  Type of voltage of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  coperating current at AC-15	at AC-4	
Thermal short-time current limited to 10 s  Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor  No-load switching frequency  • at DC  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 ma	• at 400 V rated value	1.15 kW
Power loss [W] at AC-3 at 400 V for reted value of the operating current per conductor  No-load switching frequency  • at DC  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  • rated value  • rated value  • Full-scale value  Design of the surge suppressor  Ciosing power of magnet coil at DC  Closing delay  • at DC  Closing delay  • at DC  Operating delay  • at DC  Arcing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Operating current at AC-12 maximum  Operating current at AC-15	• at 690 V rated value	1.15 kW
the operating current per conductor  No-load switching frequency  • at DC  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  Too 1/h  • at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  Design of the surge suppressor  Closing power of magnet coil at DC  • lat DC  Closing delay  • at DC  Opening delay  • at DC  Opening delay  • at DC  Aroing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Operating current at AC-15	Thermal short-time current limited to 10 s	56 A
No-load switching frequency  • at DC  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-1 maximum  • at AC-4 maximum  • at AC-1 m		0.4 W
• at DC  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum   Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  1.25  Design of the surge suppressor  with suppressor diode  Closing power of magnet coil at DC  • loiding power of magnet coil at DC  2.8 W  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  1  Operating current at AC-12 maximum  10 A  Operating current at AC-15		
Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  750 1/h  • at AC-4 maximum  750 1/h  • at AC-4 maximum  250 1/h   Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  1.25  Design of the surge suppressor  with suppressor diode  Closing power of magnet coil at DC  2.8 W  Holding power of magnet coil at DC  2.8 W  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxillary contacts  • instantaneous contact  1  Operating current at AC-12 maximum  10 A  Operating current at AC-15	No-load switching frequency	
at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-5 lb    at AC-2 maximum at AC-2 maximum at AC-1 lb  at AC-1 lb  at AC-2 maximum at AC-1 lb  at AC-1		10 000 1/h
at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC arated value  Operating range factor control supply voltage rated value of magnet coil at DC initial value Full-scale value  0.7  initial value 1.25  Design of the surge suppressor Closing power of magnet coil at DC at DC  at DC  Auxiliary circuit  Number of NC contacts for auxiliary contacts instantaneous cortact  1 Operating current at AC-15  Operating current at AC-15		
at AC-3 maximum at AC-4 maximum 250 1/h 250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage Control supply voltage at DC a rated value  Operating range factor control supply voltage rated value of magnet coil at DC initial value Full-scale value  Design of the surge suppressor with suppressor diode  Closing power of magnet coil at DC 2.8 W  Holding power of magnet coil at DC 2.8 W  Closing delay at DC 30 100 ms  Opening delay at DC  Arcing time Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts instantaneous contact  1 Operating current at AC-15	■ at AC-1 maximum	1 000 1/h
at AC-4 maximum  at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  a rated value  Prated value  Operating range factor control supply voltage rated value of magnet coil at DC  initial value  Full-scale value  Design of the surge suppressor  Closing power of magnet coil at DC  Holding power of magnet coil at DC  2.8 W  Closing delay  at DC  Opening delay  at DC  Arcing time  Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  1  Operating current at AC-12 maximum  Operating current at AC-15	• at AC-2 maximum	750 1/h
Control circuit/ Control  Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  Design of the surge suppressor  Closing power of magnet coil at DC  • at DC  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts • instantaneous contact  1 Operating current at AC-12 maximum  Operating current at AC-15	• at AC-3 maximum	750 1/h
Type of voltage of the control supply voltage  Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  Oz voltage rated value  1.25  Design of the surge suppressor  Closing power of magnet coil at DC  4.8 W  Holding power of magnet coil at DC  2.8 W  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	• at AC-4 maximum	250 1/h
Control supply voltage at DC  • rated value  Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  0.7  • Full-scale value  1.25  Design of the surge suppressor  Closing power of magnet coil at DC  4.8 W  Holding power of magnet coil at DC  2.8 W  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	Control circuit/ Control	
rated value  Operating range factor control supply voltage rated value of magnet coil at DC      initial value	Type of voltage of the control supply voltage	DC
Operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • Full-scale value  Design of the surge suppressor  Closing power of magnet coil at DC  2.8 W  Holding power of magnet coil at DC  2.8 W  Closing delay  • at DC  Opening delay  • at DC  Arcing time  Tour 15 ms  Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-15	Control supply voltage at DC	
value of magnet coil at DC  initial value  Full-scale value  1.25  Design of the surge suppressor  Closing power of magnet coil at DC  2.8 W  Holding power of magnet coil at DC  2.8 W  Closing delay  at DC  Opening delay  at DC  Arcing time  Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	• rated value	24 V
Full-scale value  Design of the surge suppressor  Closing power of magnet coil at DC  Holding power of magnet coil at DC  2.8 W  Closing delay  at DC  Opening delay  at DC  Arcing time  Control version of the switch operating mechanism  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15  with suppressor diode  2.8 W  3 100 ms  3 100 ms  3 100 ms  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  1  Operating current at AC-12 maximum  10 A		
Design of the surge suppressor with suppressor diode  Closing power of magnet coil at DC 2.8 W  Holding power of magnet coil at DC 2.8 W  Closing delay  • at DC 30 100 ms  Opening delay  • at DC 7 13 ms  Arcing time 10 15 ms  Control version of the switch operating mechanism Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact 1  Operating current at AC-12 maximum 10 A  Operating current at AC-15	● initial value	0.7
Closing power of magnet coil at DC  Holding power of magnet coil at DC  2.8 W  Closing delay  at DC  Opening delay  at DC  7 13 ms  Arcing time  10 15 ms  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	• Full-scale value	1.25
Holding power of magnet coil at DC  Closing delay  • at DC  Opening delay  • at DC  7 13 ms  Arcing time  10 15 ms  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	Design of the surge suppressor	with suppressor diode
Closing delay  • at DC  Opening delay  • at DC  7 13 ms  Arcing time  10 15 ms  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	Closing power of magnet coil at DC	2.8 W
at DC Opening delay     at DC     7 13 ms Arcing time     10 15 ms Control version of the switch operating mechanism Standard A1 - A2  Auxiliary circuit Number of NC contacts for auxiliary contacts     instantaneous contact Operating current at AC-12 maximum Operating current at AC-15	Holding power of magnet coil at DC	2.8 W
Opening delay  • at DC  Arcing time  10 15 ms  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	Closing delay	
<ul> <li>at DC</li> <li>Arcing time</li> <li>Control version of the switch operating mechanism</li> <li>Standard A1 - A2</li> <li>Auxiliary circuit</li> <li>Number of NC contacts for auxiliary contacts         <ul> <li>instantaneous contact</li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15</li> </ul> </li> </ul>	• at DC	30 100 ms
Arcing time  Control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  Operating current at AC-12 maximum  10 A  Operating current at AC-15	Opening delay	
Auxiliary circuit  Number of NC contacts for auxiliary contacts  instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	• at DC	7 13 ms
Auxiliary circuit  Number of NC contacts for auxiliary contacts  • instantaneous contact  Operating current at AC-12 maximum  10 A  Operating current at AC-15	Arcing time	10 15 ms
Number of NC contacts for auxiliary contacts         ● instantaneous contact       1         Operating current at AC-12 maximum       10 A         Operating current at AC-15       Instantaneous contact	Control version of the switch operating mechanism	Standard A1 - A2
● instantaneous contact 1  Operating current at AC-12 maximum 10 A  Operating current at AC-15	Auxiliary circuit	
Operating current at AC-12 maximum 10 A  Operating current at AC-15	Number of NC contacts for auxiliary contacts	
Operating current at AC-15	• instantaneous contact	
		10 A
• at 230 V rated value 10 A		10 A
		10 A

• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
Operating current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	4.8 A
• at 600 V rated value	6.1 A
Yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)

• for short-circuit protection of the auxiliary switch required

fuse gG: 10 A

Mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
<ul><li>Side-by-side mounting</li></ul>	Yes
Height	70 mm
Width	45 mm
Depth	73 mm
Required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul><li>for grounded parts</li></ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm

Connections/Terminals	
Type of electrical connection	
• for main current circuit	spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
<ul><li>— single or multi-stranded</li></ul>	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (20 12)
Connectable conductor cross-section for main contacts	

• solid	0.5 4 mm²
• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
Connectable conductor cross-section for auxiliary contacts	
single or multi-stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
• finely stranded without core end processing	0.5 2.5 mm²
Type of connectable conductor cross-sections	
for auxiliary contacts	
<ul><li>— single or multi-stranded</li></ul>	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 12)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
• for auxiliary contacts	20 12

Safety related data	
B10 value	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	1 000 000
Proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %
• with high demand rate acc. to SN 31920	73 %
Failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	100 FIT
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	
Protection against electrical shock	finger-safe

# Certificates/approvals

## **General Product Approval**

**Functional** Safety/Safety of Machinery







KC



Type Examination

Declaration of
Conformity

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







GL

other

# Marine / Shipping

Lloyd's Register











Confirmation

#### other

# Railway



Confirmation

## Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2KB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2KB42

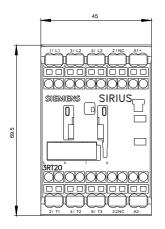
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

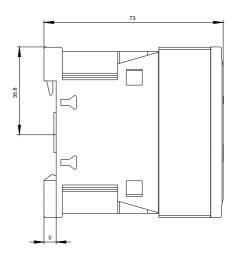
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2KB42

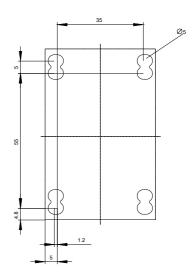
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2KB42\&lang=en.pdf}} \\ 2 \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2KB42\&lang=en.pdf}} \\ 2 \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx.pdf}} \\ 2 \underline{\text{http://www.auto$ 

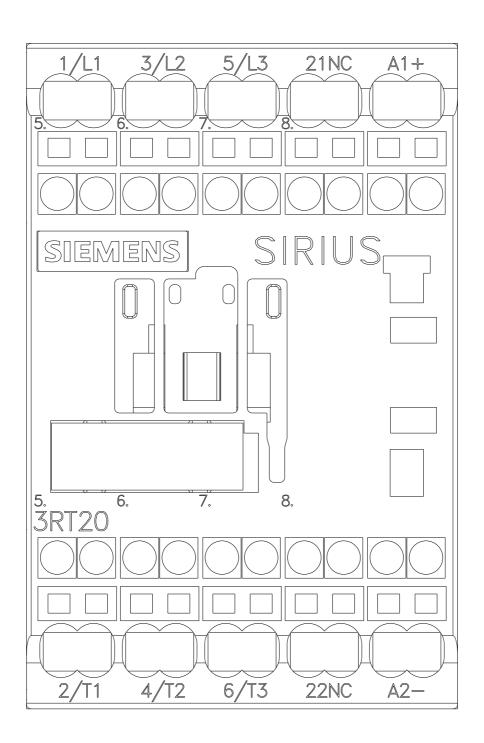
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2KB42/char

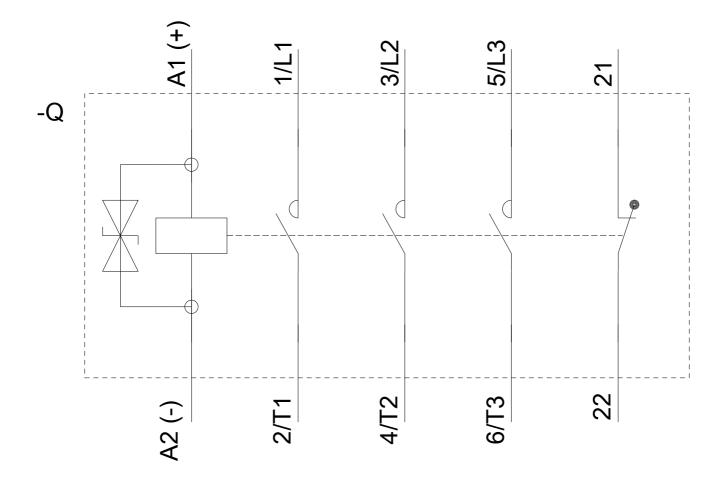
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2KB42&objecttype=14&gridview=view1











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