# **SIEMENS**

Data sheet 3RT2025-1AG24

power contactor, AC-3 17 A, 7.5 kW / 400 V 2 NO + 2 NC, 110 V AC, 50 / 60 Hz, 3-pole, Size S0, screw terminal Removable auxiliary switch



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S0
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	No
Power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	2.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.9 W
Power loss [W] for rated value of the current without	7.9 W
load current share typical	
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	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	400 V
60947-1	

Protection class IP	
• on the front	IP20
of the terminal	IP20
Shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
Mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>	5 000 000
compatible auxiliary switch block typical	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
Reference code acc. to DIN EN 81346-2	Q
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 storage</li></ul>	-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	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
— up to 690 V at ambient temperature 60 $^{\circ}$ C rated value	35 A
• at AC-2 at 400 V rated value	17 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
● at AC-4 at 400 V rated value	15.5 A
at AC-5a up to 690 V rated value	35.2 A

• at AC-5b up to 400 V rated value	14.1 A
● at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	11.3 A
● at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
Minimum cross-section in main circuit	
<ul> <li>at maximum AC-1 rated value</li> </ul>	10 mm²
Operating current for approx. 200000 operating cycles at AC-4	
● at 400 V rated value	7.7 A
• at 690 V rated value	7.7 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A

— at 600 V rated value	1.4 A
Operating current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
Operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V rated value	40 kW
— at 690 V at 60 °C rated value	40 kW
at AC-2 at 400 V rated value	7.5 kW
● at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	3.5 kW
• at 690 V rated value	6 kW
Operating apparent output at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	4 500 V·A

<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7 800 V·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9 900 V·A
up to 690 V for current peak value n=20 rated value	13 600 V·A
Operating apparent output at AC-6a	
up to 230 V for current peak value n=30 rated	3 000 V·A
value	
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5 200 V·A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	6 600 V·A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	9 100 V·A
Short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	225 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	225 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	180 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	115 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 60 Hz rated value	110 V
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
<del>-</del>	

68 V·A
67 V·A
0.72
0.74
7.9 V·A
6.5 V·A
0.25
0.28
9 38 ms
4 16 ms
10 10 ms
Standard A1 - A2
2
2
2

Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	2
Number of NO contacts for auxiliary contacts	
instantaneous contact	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
● at 230 V rated value	6 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	6 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	14 A
• at 600 V rated value	17 A
Yielded mechanical performance [hp]	
<ul><li>for single-phase AC motor</li></ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
• for three-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

## Short-circuit protection

Design	of the	fuse	link

- for short-circuit protection of the main circuit
  - with type of coordination 1 required

gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A

(415V,80kA)

— with type of assignment 2 required

gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A

(415V,80kA)

• for short-circuit protection of the auxiliary switch

required

gG: 10 A (500 V, 1 kA)

nstallation/ mounting/ dimensions	
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	85 mm
Width	45 mm
Depth	141 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
for grounded parts	
— 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

Type of connectable conductor cross-sections  • for main contracts  — solid — single or multi-stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • for auxiliary contacts  • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid • stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts  • single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross-section  AWG number as coded connectable conductor cross-section		
• for main current circuit • for auxiliary and control current circuit • at contactor for auxiliary contacts • of magnet coil  Type of connectable conductor cross-sections • for main contacts — solid — single or multi-stranded — finely stranded with core end processing • stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts — single or multi-stranded — finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross  AWG number as coded connectable conductor cross  Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (0.5 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)		
• for auxiliary and control current circuit     • at contactor for auxiliary contacts     • of magnet coil  Type of connectable conductor cross-sections     • for main contacts     — solid     — single or multi-stranded     — finely stranded with core end processing     • stranded     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded with core end processing  Connectable conductor cross-section for auxiliary contacts      • single or multi-stranded     • finely stranded with core end processing  Type of connectable conductor cross-sections     • for auxiliary contacts     — single or multi-stranded     — finely stranded with core end processing  • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross  AWG number as coded connectable conductor cross  **Connectable conductors for auxiliary contacts  **Connectable conductor cross-sections  **Stranded	Type of electrical connection	
at contactor for auxiliary contacts of magnet coil  Type of connectable conductor cross-sections of for main contacts  - solid - single or multi-stranded of tinely stranded with core end processing of stranded with core end processing of tinely stranded with core end processing of the	for main current circuit	screw-type terminals
of magnet coil  Type of connectable conductor cross-sections     of or main contacts         — solid         — single or multi-stranded         — finely stranded with core end processing     ot at AWG conductors for main contacts      osolid     other finely stranded with core end processing     onnectable conductor cross-section for auxiliary contacts     other finely stranded with core end processing     other finely stranded with core end processing  Type of connectable conductor cross-sections     of inely stranded with core end processing  Type of connectable conductor cross-sections     of or auxiliary contacts     — single or multi-stranded     other finely stranded with core end processing     othe	<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections  • for main contacts  — solid  — single or multi-stranded — finely stranded with core end processing  • at AWG conductor cross-section for main contacts  • solid  • stranded • finely stranded with core end processing  • at finely stranded with core end processing  • solid • finely stranded with core end processing  • stranded • finely stranded with core end processing  Connectable conductor cross-section for auxiliary contacts  • single or multi-stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts — single or multi-stranded — finely stranded with core end processing  • at AWG conductors for auxiliary contacts  • at AWG conductors for auxiliary contacts  • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross  • for auxiliary contacts  • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>• for main contacts  — solid  — single or multi-stranded  — finely stranded with core end processing  • at AWG conductors for main contacts  • solid  • stranded  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  Connectable conductor cross-section for auxiliary contacts  • single or multi-stranded  • finely stranded with core end processing  Connectable conductor cross-section for auxiliary contacts  • single or multi-stranded  • finely stranded with core end processing  Type of connectable conductor cross-sections  • for auxiliary contacts  — single or multi-stranded  — finely stranded with core end processing  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)  — finely stranded with core end processing  • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross</li> </ul>	of magnet coil	Screw-type terminals
solid single or multi-stranded single or multi-stranded finely stranded with core end processing  • at AWG conductors for main contacts  • solid • stranded • finely stranded with core end processing  • solid • stranded • finely stranded with core end processing  Connectable conductor cross-section for main contacts  • solid • stranded • finely stranded with core end processing  Connectable conductor cross-section for auxiliary contacts  • single or multi-stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts  - single or multi-stranded - finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts  - single or multi-stranded - finely stranded with core end processing  • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross	Type of connectable conductor cross-sections	
<ul> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG conductors for main contacts</li> <li>• solid</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> <li>Connectable conductor cross-section for auxiliary contacts</li> <li>• single or multi-stranded</li> <li>• finely stranded with core end processing</li> <li>Type of connectable conductor cross-sections</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts</li> <li>— single or multi-stranded</li> <li>– finely stranded with core end processing</li> <li>Type of connectable conductor cross-sections</li> <li>• for auxiliary contacts</li> <li>— single or multi-stranded</li> <li>– finely stranded with core end processing</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>- at AWG conductors for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> </ul>	• for main contacts	
<ul> <li>finely stranded with core end processing</li> <li>at AWG conductors for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (16 12), 2x (14 8)</li> </ul> Connectable conductor cross-section for main contacts <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>1 10 mm²</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>single or multi-stranded</li> <li>finely stranded with core end processing</li> <li>5 2.5 mm²</li> </ul> Type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>single or multi-stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>at AWG conductors for auxiliary contacts</li> <li>at AWG conductors for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross	— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>at AWG conductors for main contacts</li> <li>Connectable conductor cross-section for main contacts</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>1 10 mm²</li> <li>1 10 mm²</li> <li>main single or multi-stranded</li> <li>finely stranded with core end processing</li> <li>1 10 mm²</li> <li>2 2.5 mm²</li> <li>1 10 mm²</li> <li>2 2.5 mm²</li> <li>2 2.5 mm²</li> <li>1 10 mm²</li> <li>2 2.5 mm²</li> &lt;</ul>	<ul><li>— single or multi-stranded</li></ul>	2x (1 2,5 mm²), 2x (2,5 10 mm²)
Connectable conductor cross-section for main contacts  • solid • stranded • finely stranded with core end processing  Connectable conductor cross-section for auxiliary contacts • single or multi-stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts  - single or multi-stranded  • finely stranded with core end processing  • for auxiliary contacts  - single or multi-stranded  - finely stranded with core end processing  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)  - finely stranded with core end processing • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross	<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
ontacts  output solid output stranded output	<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)
<ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>Connectable conductor cross-section for auxiliary contacts</li> <li>single or multi-stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>Type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>single or multi-stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>at AWG conductors for auxiliary contacts</li> <li>at AWG conductors for auxiliary contacts</li> <li>2x (20 16), 2x (18 14)</li> </ul>	Connectable conductor cross-section for main	
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<ul> <li>• finely stranded with core end processing</li> <li>Connectable conductor cross-section for auxiliary contacts</li> <li>• single or multi-stranded</li> <li>• finely stranded with core end processing</li> <li>Type of connectable conductor cross-sections</li> <li>• for auxiliary contacts</li> <li>— single or multi-stranded</li> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>— finely stranded with core end processing</li> <li>• at AWG conductors for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> </ul>	• solid	1 10 mm²
Connectable conductor cross-section for auxiliary contacts  • single or multi-stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts — single or multi-stranded — finely stranded with core end processing  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)  - finely stranded with core end processing • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross	• stranded	1 10 mm²
ontacts  • single or multi-stranded • finely stranded with core end processing  Type of connectable conductor cross-sections • for auxiliary contacts  — single or multi-stranded  — finely stranded with core end processing  • for auxiliary contacts  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  AWG number as coded connectable conductor cross	<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
<ul> <li>finely stranded with core end processing</li> <li>Type of connectable conductor cross-sections</li> <li>for auxiliary contacts  — single or multi-stranded  — finely stranded with core end processing  — at AWG conductors for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> <li>0.5 2.5 mm²</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>	· · · · · · · · · · · · · · · · · · ·	
Type of connectable conductor cross-sections  • for auxiliary contacts  — single or multi-stranded  — finely stranded with core end processing  • at AWG conductors for auxiliary contacts  AWG number as coded connectable conductor cross	<ul> <li>single or multi-stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>for auxiliary contacts         <ul> <li>single or multi-stranded</li> <li>finely stranded with core end processing</li> <li>at AWG conductors for auxiliary contacts</li> </ul> </li> <li>for auxiliary contacts</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul> AWG number as coded connectable conductor cross	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> <li>● at AWG conductors for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> <li>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>	Type of connectable conductor cross-sections	
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• at AWG conductors for auxiliary contacts  2x (20 16), 2x (18 14)  AWG number as coded connectable conductor cross	<ul><li>single or multi-stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
AWG number as coded connectable conductor cross	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
section		
	section	
• for main contacts 16 8	• for main contacts	
• for auxiliary contacts 20 14	• for auxiliary contacts	20 14

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
<ul> <li>positively driven operation acc. to IEC 60947-5-</li> </ul>	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe

## Certificates/ approvals

## General Product Approval

**EMC** 











Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Ship- ping
Type Examination  Certificate	Miscellaneous  EG-Konf.	Type Test Certificates/Test Report Special Test Certificate	ARS

## Marine / Shipping

other











Confirmation

#### other



#### Further information

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=3RT2025-1AG24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1AG24

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AG24

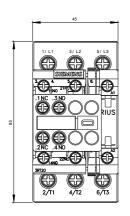
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2025-1AG24&lang=en

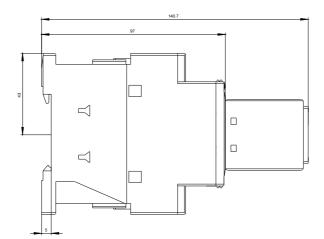
Characteristic: Tripping characteristics, I2t, Let-through current

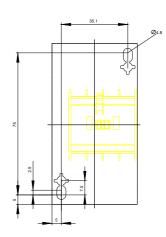
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AG24/char

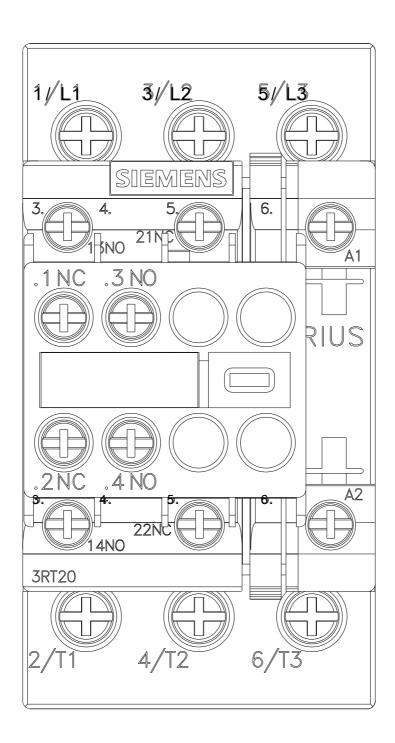
Further characteristics (e.g. electrical endurance, switching frequency)

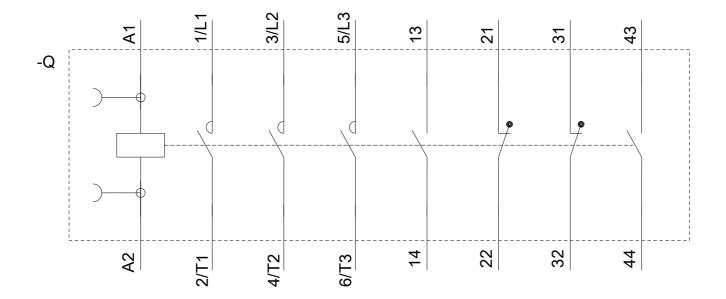
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AG24&objecttype=14&gridview=view1











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