# **SIEMENS**

Data sheet 3RT2016-2FB41

Power contactor, AC-3 9 A, 4 kW / 400 V 1 NO, 24 V DC with diode integrated, 3-pole, Size S00, Spring-type terminal



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

General technical data	
Size of contactor	S00
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	Yes
Surge voltage resistance	
of main circuit rated value	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

Shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
Mechanical service life (switching cycles)	10,09 / 0 1110, 0,09 / 10 1110
• of contactor typical	30 000 000
of the contactor with added electronics-	5 000 000
compatible auxiliary switch block typical	
of the contactor with added auxiliary switch	10 000 000
block typical	
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
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	22 A
● at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	20 A
• at AC-2 at 400 V rated value	9 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	
<ul><li>up to 230 V at current peak n=20 rated value</li></ul>	5.3 A
<ul><li>up to 400 V at current peak n=20 rated value</li></ul>	5.3 A
<ul><li>up to 500 V at current peak n=20 rated value</li></ul>	5.3 A

— up to 690 V at current peak n=20 rated	5 A
value	
• at AC-6a	25 /
<ul><li>up to 230 V at current peak n=30 rated value</li></ul>	3.5 A
<ul><li>— up to 400 V at current peak n=30 rated value</li></ul>	3.5 A
<ul> <li>up to 500 V at current peak n=30 rated value</li> </ul>	3.6 A
<ul><li>up to 690 V at current peak n=30 rated value</li></ul>	3.3 A
Minimum cross-section in the main circuit	
• at maximum AC-1 rated value	4 mm²
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	2.5 mm²
• at 40 °C minimum permissible	4 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A

at 110 V rated value  • with 2 current paths in series at DC-3 at DC-5  at 24 V rated value  at 110 V rated value  at 110 V rated value  at 110 V rated value  at 24 V rated value  at 24 V rated value  at 220 V rated value  at 220 V rated value  at 220 V rated value  at 440 V rated value  at 440 V rated value  at 440 V rated value  at 400 V rated value  at 230 V rated value  at 230 V rated value  at 400 V rated value  at 690 V rated value  at 400 V rated value  at 500 V rated value  at 500 V rated value  at 690 V rated value  at		
- at 24 V rated value - at 110 V rated value 0.35 A    • with 3 current paths in series at DC-3 at DC-5   - at 24 V rated value 20 A   - at 110 V rated value 20 A   - at 220 V rated value 1.5 A   - at 440 V rated value 0.2 A   - at 440 V rated value 0.2 A   - at 230 V rated value 0.2 A    Operating power    • at AC-1 - at 230 V rated value 7.5 kW   - at 230 V rated value 13 kW   - at 400 V rated value 13 kW   - at 400 V rated value 22 kW   - at 690 V rated value 22 kW   - at 690 V rated value 22 kW   • at AC-2 at 400 V rated value 4 kW   • at AC-3 - at 230 V rated value 4 kW   • at AC-3 was a   - at 230 V rated value 5.5 kW    Operating power for approx. 200000 operating cycles at AC-4   • at 400 V rated value 2.5 kW    Thormal short-time current limited to 10 s    Tower loss lifty at AC-3 at 400 V for rated value of the operating current per conductor    No-load switching frequency   • at AC-1 maximum 1 000 1/h   • at AC-2 maximum 750 1/h   • at AC-4 maximum 250 1/h    Control Circuit/ Control	— at 110 V rated value	0.1 A
	• with 2 current paths in series at DC-3 at DC-5	
with 3 current paths in series at DC-3 at DC-5	— at 24 V rated value	20 A
- at 24 V rated value 20 A   - at 110 V rated value 20 A   - at 220 V rated value 1.5 A   - at 440 V rated value 0.2 A   - at 440 V rated value 0.2 A   - at 4600 V rated value 0.2 A    Operating power   • at AC-1   - at 230 V rated value 7.5 kW   - at 230 V rated value 13 kW   - at 400 V rated value 13 kW   - at 400 V rated value 22 kW   - at 690 V rated value 22 kW   - at 690 V rated value 4 kW   • at AC-3   - at 230 V rated value 22 kW   - at 400 V rated value 4 kW   • at AC-3 was a   - at 230 V rated value 5.5 kW    Operating power for approx. 200000 operating cycles at AC-4   • at 400 V rated value 25 kW   - at 690 V rated value 5.5 kW    Operating power for approx. 200000 operating cycles at AC-4   • at 400 V rated value 2.5 kW   - at 690 V rated value 5.5 kW    Operating power for approx. 200000 operating cycles at AC-4   • at 400 V rated value 72 kW   • at 690 V rated value 72 kW   • at 400 V rated value 72 kW	— at 110 V rated value	0.35 A
- at 110 V rated value	• with 3 current paths in series at DC-3 at DC-5	
- at 220 V rated value	— at 24 V rated value	20 A
at 440 V rated value 0.2 A at 600 V rated value 0.2 A  Operating power  • at AC-1  at 230 V rated value 7.5 kW  at 230 V at 60 °C rated value 13 kW  at 400 V rated value 13 kW  at 690 V rated value 22 kW  at 690 V rated value 22 kW  at 690 V rated value 4 kW  • at AC-2 at 400 V rated value 4 kW  • at AC-3  at 230 V rated value 2.2 kW  at 690 V rated value 4 kW  • at AC-3  at 230 V rated value 4 kW  at 690 V rated value 5.5 kW  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW  • at 690 V rated value 2.5 kW  Thermal short-time current limited to 10 s 72 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 10 000 1/h  Operating frequency  • at AC-4 maximum 750 1/h  • at AC-2 maximum 750 1/h  • at AC-3 maximum 750 1/h  • at AC-4 maximum 250 1/h	— at 110 V rated value	20 A
Operating power  • at AC-1  — at 230 V rated value — at 230 V rated of °C rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at AC-2 at 400 V rated value — at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — 2 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  • at 690 V rated value  • at 690 V rated value  • at 690 V rated value  • at 690 V rated value  10 000 1/h  Operating current per conductor  No-load switching frequency • at AC-1 maximum  • at AC-2 maximum  • at AC-2 maximum  750 1/h • at AC-3 maximum  • at AC-4 maximum  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 220 V rated value	1.5 A
Operating power          • at AC-1	— at 440 V rated value	0.2 A
• at AC-1  — at 230 V rated value — at 230 V at 60 °C rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at AC-2 at 400 V rated value  • at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value  S.5 kW  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW  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  10 000 1/h  • at AC-1 maximum 1 000 1/h • at AC-2 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  DC	— at 600 V rated value	0.2 A
at 230 V rated value 7.5 kW at 230 V at 60 °C rated value 7.5 kW at 400 V rated value 13 kW at 400 V rated value 22 kW at 690 V rated value 22 kW at 690 V at 60 °C rated value 4 kW at 690 V rated value 22 kW at 690 V rated value 4 kW at AC-2 at 400 V rated value 4 kW at 230 V rated value 4 kW at 230 V rated value 5.5 kW at 690 V rated value 7.5 kW at 690 V rated value 7.5 kW at 690 V rated value 8.5 kW at 690 V rated value 9.5 kW at 690 V rated value 9.7 kW at 400 V rated value 9.7 kW at AC-3 maximum 9.7 so 1/h at AC-2 maximum 9.7 so 1/h at AC-4 maximum 9.7 so 1/h	Operating power	
	• at AC-1	
- at 400 V rated value	— at 230 V rated value	7.5 kW
- at 400 V at 60 °C rated value	— at 230 V at 60 °C rated value	7.5 kW
at 690 V rated value	— at 400 V rated value	13 kW
- at 690 V at 60 °C rated value  • at AC-2 at 400 V rated value  • at AC-3  - at 230 V rated value  - at 400 V rated value  - at 500 V rated value  - at 500 V rated value  - at 690 V rated value  - at 690 V rated value  - at 690 V rated value  5.5 kW  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value  2 kW  • at 690 V rated value  2.5 kW  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-3 maximum  • at AC-3 maximum  • at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 400 V at 60 °C rated value	13 kW
■ at AC-2 at 400 V rated value     ■ at AC-3     — at 230 V rated value     — at 400 V rated value     — at 500 V rated value     — at 690 V rated value     — at 690 V rated value     ● at 400 V rated value     ○ b.	— at 690 V rated value	22 kW
at AC-3  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  5.5 kW   Operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  2 kW  at 690 V rated value  2.5 kW  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 AC-1 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-4 maximum  at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 690 V at 60 °C rated value	22 kW
- at 230 V rated value 2.2 kW - at 400 V rated value 4 kW - at 500 V rated value 5.5 kW  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW  Thermal short-time current limited to 10 s 72 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 10 000 1/h  Operating frequency • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage DC	• at AC-2 at 400 V rated value	4 kW
- at 400 V rated value 4 kW - at 500 V rated value 5.5 kW  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW  Thermal short-time current limited to 10 s 72 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 10 000 1/h  Operating frequency • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage DC	• at AC-3	
- at 500 V rated value - at 690 V rated value  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  2 kW  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  1 000 1/h  Operating frequency • at AC-2 maximum  750 1/h • at AC-3 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 230 V rated value	2.2 kW
— at 690 V rated value  Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  2 kW  • at 690 V rated value  2.5 kW  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  1 000 1/h  • at AC-2 maximum  750 1/h  • at AC-3 maximum  750 1/h  • at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 400 V rated value	4 kW
Operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value 2.5 kW  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 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 500 V rated value	4 kW
at AC-4  • at 400 V rated value  • at 690 V rated value  2.5 kW  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  10 000 1/h  Operating frequency  • at AC-1 maximum  1 000 1/h  • at AC-2 maximum  750 1/h  • at AC-3 maximum  • at AC-4 maximum  250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC	— at 690 V rated value	5.5 kW
at 690 V rated value  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-3 maximum  at AC-3 maximum  at AC-4 maximum  at AC-4 maximum  Tool 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  2.5 kW  2.7 kW  2.8 kW  2.8 kW  2.9 kW  2.0 kW  2		
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  10 000 1/h  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  Control circuit/ Control  Type of voltage of the control supply voltage  DC	• at 400 V rated value	2 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor  No-load switching frequency  • at DC  10 000 1/h  Operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  Control circuit/ Control  Type of voltage of the control supply voltage	• at 690 V rated value	2.5 kW
the operating current per conductor  No-load switching frequency  at DC  10 000 1/h  Operating frequency  at AC-1 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-4 maximum  Tool 1/h  Type of voltage of the control supply voltage  DC	Thermal short-time current limited to 10 s	72 A
No-load switching frequency  • at DC  10 000 1/h  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  DC		0.7 W
<ul> <li>at DC</li> <li>Operating frequency</li> <li>at AC-1 maximum</li> <li>1 000 1/h</li> <li>at AC-2 maximum</li> <li>750 1/h</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control Type of voltage of the control supply voltage 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  DC		40,000,475
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control Type of voltage of the control supply voltage DC		10 000 1/11
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control Type of voltage of the control supply voltage DC		1 000 1/h
at AC-3 maximum     at AC-4 maximum     at AC-4 maximum  Control circuit/ Control  Type of voltage of the control supply voltage  DC		
at AC-4 maximum     250 1/h  Control circuit/ Control  Type of voltage of the control supply voltage  DC		
Control circuit/ Control  Type of voltage of the control supply voltage  DC		
Type of voltage of the control supply voltage DC	- at AO-4 maximum	200
Control supply voltage at DC		DC
	Control supply voltage at DC	

• rated value	24 V
Operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
Full-scale value	1.1
Design of the surge suppressor	with diode
Closing power of magnet coil at DC	4 W
Holding power of magnet coil at DC	4 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 NO contacts for auxiliary contacts	
• instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	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

# UL/CSA ratings

at 125 V rated valueat 220 V rated value

• at 600 V rated value

Contact reliability of auxiliary contacts

1 faulty switching per 100 million (17 V, 1 mA)

0.9 A

0.3 A 0.1 A

Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	7.6 A
• at 600 V rated value	9 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for three-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
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	
<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)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)

• for short-circuit protection of the auxiliary switch required

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

— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 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</li> </ul>	2x (0.5 2.5 mm²)
processing	
at AWG conductors for main contacts	2x (20 12)
Connectable conductor cross-section for main	
contacts	0.5 4 mm²
• solid	0.5 4 mm²
• stranded	0.5 2.5 mm <sup>2</sup>
• finely stranded with core end processing	
• finely stranded without core end processing	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
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<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	/ ro	later	l data	
Jaicty	/ I G	alec	ı ualc	4

B10 value

1 000 000
40 %
73 %
100 FIT
Yes; with 3RH29
20 y
finger-safe
No
No

### Certificates/approvals

# General Product Approval

Functional Safety/Safety of Machinery









Type Examination
Certificate

# **Declaration of Conformity**

# **Test Certificates**

# Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





### Marine / Shipping

other



LRS









Confirmation

### other



#### Further informatior

### 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=3RT2016-2FB41

### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2FB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2FB41

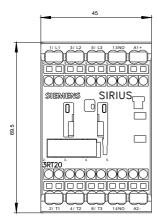
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-2FB41&lang=en

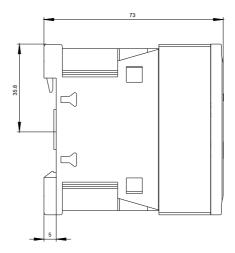
### Characteristic: Tripping characteristics, I2t, Let-through current

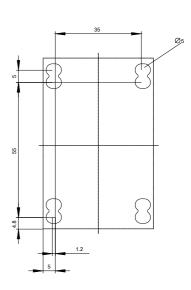
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2FB41/char

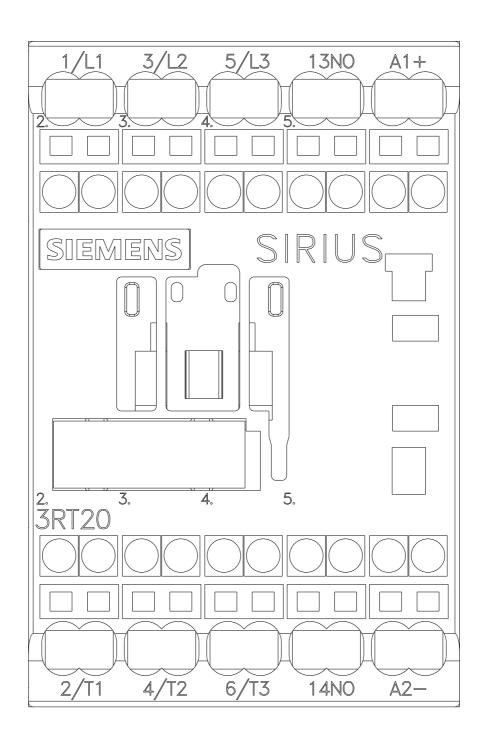
### Further characteristics (e.g. electrical endurance, switching frequency)

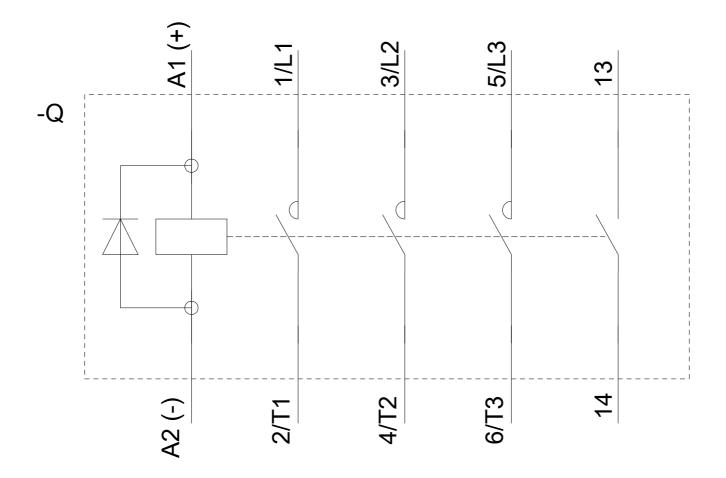
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2FB41&objecttype=14&gridview=view1











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