# **SIEMENS**

Data sheet 3RT2025-1FB40



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 24 V DC, with plugged-in diode combination, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

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	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	1.8 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.6 W	
<ul> <li>without load current share typical</li> </ul>	5.9 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V	
surge voltage resistance		
of main circuit rated value	6 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at DC	10g / 5 ms, 7,5g / 10 ms	
shock resistance with sine pulse		
• at DC	15g / 5 ms, 10g / 10 ms	
mechanical service life (operating cycles)		
of contactor typical	10 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
SVHC substance name	Blei - 7439-92-1	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-25 +60 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Nain 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
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
• 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-3e	
— 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
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	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
— up to 500 V for current peak value n=20 rated value	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
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm²
value operational 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
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
	5 A
<ul> <li>at 220 V rated value</li> </ul>	
<ul><li>— at 220 V rated value</li><li>— at 440 V rated value</li></ul>	1 A
	1 A 0.8 A
<ul><li>— at 440 V rated value</li><li>— at 600 V rated value</li></ul>	
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> </ul>	0.8 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	0.8 A 35 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul>	0.8 A 35 A 35 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	0.8 A 35 A 35 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul>	0.8 A 35 A 35 A

• at 12 current path at DC-3 at DC-5  — at 20 V rated value — at 150 V rated value — at 220		
	-	20.4
- with 2 current paths in series at DC-3 at DC-6  - at 21 V raticd value  - at 100 V rated value  - at 100 V rated value  - at 220 V rated value  - at 240 V rated value  - at 250 V rated value  - at		
# with 2 current paths in series at DC-3 at DC-5		
		0.06 A
	·	
at 110 V rated value		
at 440 V rated value at 500 V rated value at		
at 800 V rated value at 124 V rated value at 60 V rated value at 60 V rated value at 100 V rated value at 100 V rated value at 200 V rated value at 800 V rate		
- with 3 current paths in series at DC-3 at DC-5		
		0.16 A
	•	
operating power		
• at AC-3         — at 230 V rated value         4 kW           — at 500 V rated value         7.5 kW           — at 950 V rated value         11 kW           — at 950 V rated value         11 kW           — at 230 V rated value         4 kW           — at 230 V rated value         7.5 kW           — at 950 V rated value         7.5 kW           — at 950 V rated value         7.5 kW           — at 950 V rated value         11 kW           — at 950 V rated value         6 kW           — at 950 V rated value         6 kW           • at 400 V rated value         6 kW           • at 950 V for current peak value n=20 rated value         7.5 kW           • at 950 V for current peak value n=20 rated value         6 kW           Operating apparent power at AC-8a         • up to 230 V for current peak value n=20 rated value         7.5 kVA           • up to 500 V for current peak value n=20 rated value         9.9 kVA           • up to 690 V for current peak value n=20 rated value         3.8 kVA           • up to 500 V for current peak value n=30 rated value         3.8 kVA           • up to 500 V for current peak value n=30 rated value         5.2 kVA           • up to 500 V for current peak value n=30 rated value         9.1 kVA           • up to 500 V for current peak value n=30 rated val		
		0.6 A
- at 400 V rated value		
at 500 V rated value at 890 V rated value at 800 V rated value at 800 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 800 V rated value 800		
- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 690 V rated value - at 400 V rated value - at 690 V rated value - at 400 V rated value - at 690 V rated value - up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up		11 kW
- at 400 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 • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limi		
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• at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 590 V for current peak value n=20 rated value  • up to 590 V for current peak value n=20 rated value  • up to 590 V for current peak value n=30 rated value  • up to 230 V for current peak value n=30 rated value  • up to 400 V for current peak value n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • limited to 10 s switching at zero current maximum  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 50 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum		3.5 kW
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• up to 400 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 690 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 400 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limit		4.5 kVA
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<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>15 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>15 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>15 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>15 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1000 1/h</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>1000 1/h</li> <li>at AC-3 maximum</li> <li>1000 1/h</li> <li>at AC-3e maximum</li> <li>1000 1/h</li> </ul>		3 kVA
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up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C      elimited to 1 s switching at zero current maximum     elimited to 5 s switching at zero current maximum     elimited to 10 s switching at zero current maximum     elimited to 10 s switching at zero current maximum     elimited to 30 s switching at zero current maximum     elimited to 60 s switching at zero current maximum     elimited to 60 s switching at zero current maximum     following frequency     eat DC     forerating frequency     eat AC-1 maximum     forerating frequency     eat AC-2 maximum     forerating frequency     eat AC-3 maximum     forerating frequency     forerating frequenc		
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum  140 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum  115 A; Use minimum cross-section acc. to AC-1 rated value  no-load switching frequency • at DC  1 500 1/h  operating frequency • at AC-1 maximum  1 000 1/h • at AC-3 maximum  1 000 1/h • at AC-3 maximum  1 000 1/h  1 000 1/h  1 000 1/h		
Ilmited to 1 s switching at zero current maximum     Ilmited to 5 s switching at zero current maximum     Ilmited to 10 s switching at zero current maximum     Ilmited to 30 s switching at zero current maximum     Ilmited to 30 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum      Ilmited to 60 s switching frequency     at DC      Indicated to 4C-1 rated value	·	
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching frequency</li> <li>at DC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>		
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at DC</li> <li>1 500 1/h</li> <li>operating frequency</li> <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-3 maximum</li> <li>at AC-3 maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>	<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 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at DC</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>	<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 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at DC</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	189 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	140 A; Use minimum cross-section acc. to AC-1 rated value
● at DC  operating frequency  ● at AC-1 maximum  ● at AC-2 maximum  ● at AC-3 maximum  ● at AC-3 maximum  ● at AC-3e maximum  1 000 1/h  1 000 1/h  1 000 1/h	limited to 60 s switching at zero current maximum	115 A; Use minimum cross-section acc. to AC-1 rated value
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-3e maximum       1 000 1/h	no-load switching frequency	
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 e maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> </ul>	• at DC	1 500 1/h
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>	operating frequency	
<ul> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>	• at AC-1 maximum	1 000 1/h
• at AC-3e maximum 1 000 1/h	• at AC-2 maximum	1 000 1/h
	• at AC-3 maximum	1 000 1/h
a at AC-4 maximum		
▼ at / to ¬ indximum	• at AC-3e maximum	1 000 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	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 assemblies
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
• at DC	15 18 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational 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	1A
operational 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
operational 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 3-phase AC motor	
• at 480 V rated value	14 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
• for 3-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 / P600
Short-circuit protection	
design of the fuse link	

— with type of assignment 2 required gG: 25A (690V,100kA), aM: 20A (690 or short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position +/-180° rotation possible on vertical backward by +/- 22.5° on vertical mounting to the state of the sum of	90V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical backward by +/- 22.5° on vertical mounting method  • side-by-side mounting  • side-by-side mounting  45 mm  depth  tequired spacing  • with side-by-side mounting	
Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical backward by +/- 22.5° on vertical mode screw and snap-on mounting onto 3  • side-by-side mounting  height  width  depth  107 mm  required spacing  • with side-by-side mounting	90V,100kA), BS88: 25A (415V,80kA)
Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical backward by +/- 22.5° on vertical mode screw and snap-on mounting onto 3  • side-by-side mounting  height  width  45 mm  depth  107 mm  required spacing  • with side-by-side mounting	
backward by +/- 22.5° on vertical most screw and snap-on mounting onto 3  • side-by-side mounting  • side-by-side mounting  Yes  height  85 mm  width  45 mm  depth  107 mm  required spacing  • with side-by-side mounting	
<ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> </ul>	mounting surface; can be tilted forward and bunting surface
height     85 mm       width     45 mm       depth     107 mm       required spacing     • with side-by-side mounting	5 mm DIN rail according to DIN EN 60715
width 45 mm  depth 107 mm  required spacing  • with side-by-side mounting	
depth 107 mm  required spacing  • with side-by-side mounting	
required spacing  • with side-by-side mounting	
with side-by-side mounting	
— 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	
Connections/ Terminals	
type of electrical connection	
• for main current circuit screw-type terminals	
• for auxiliary and control circuit screw-type terminals	
at contactor for auxiliary contacts     Screw-type terminals	
• of magnet coil Screw-type terminals	
type of connectable conductor cross-sections for main contacts	
• solid 2x (1 2.5 mm²), 2x (2.5 10 mm²	2)
• solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²	
• finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²),	
connectable conductor cross-section for main contacts	
• solid 1 10 mm²	
• stranded 1 10 mm²	
• finely stranded with core end processing 1 10 mm²	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 2.5 mm²	
• finely stranded with core end processing 0.5 2.5 mm²	
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 r	mm²)
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 r	mm²)
◆ for AWG cables for auxiliary contacts     2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section	
• for main contacts 16 8	
• for auxiliary contacts 20 14	
Safety related data	
product function	
• mirror contact according to IEC 60947-4-1 Yes	
suitability for use safety-related switching OFF Yes	
B10 value with high demand rate according to SN 31920 450 000	
proportion of dangerous failures	
• with low demand rate according to SN 31920 40 %	

<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
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

Certificates/ approvals

### **General Product Approval**





Confirmation



<u>KC</u>



Functional
Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













other

Railway

**Dangerous Good** 

**Environment** 

Confirmation



Vibration and Shock

**Transport Information** 

Environmental Confirmations

### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2025-1FB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1FB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1FB40

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

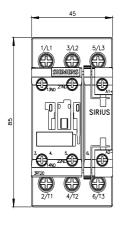
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2025-1FB40&lang=er

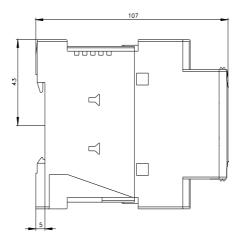
 $\label{eq:Characteristic:Tripping characteristics, I^2t, Let-through current} \label{eq:Characteristic:Tripping characteristics}$ 

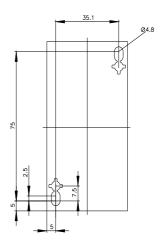
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1FB40/cha

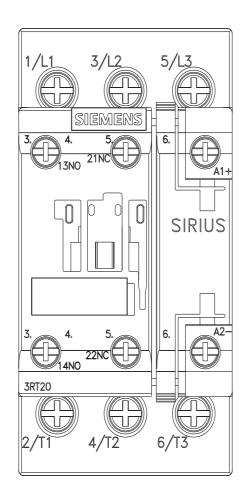
Further characteristics (e.g. electrical endurance, switching frequency)

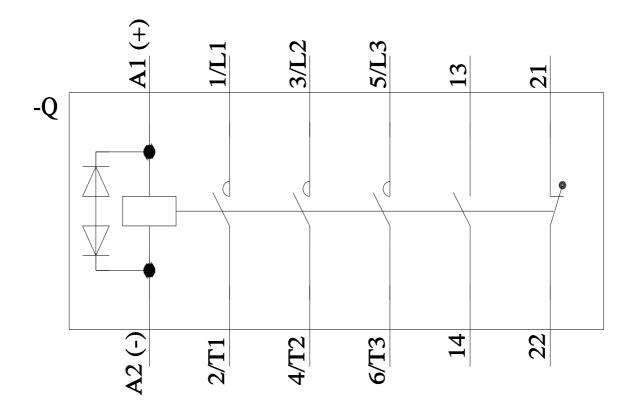
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1FB40&objecttype=14&gridview=view1











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# **Mouser Electronics**

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