## **SIEMENS**

Data sheet 3RT2015-2BF41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 110 V DC, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00  $\,$ 

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
Seneral technical data	
size of contactor	S00
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>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
<ul> <li>without load current share typical</li> </ul>	4 W
type of calculation of power loss depending on pole	quadratic
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	
<ul> <li>of main circuit rated value</li> </ul>	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	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 (operating cycles)	
of contactor typical	30 000 000
<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
Weight	0.314 kg
mbient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-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 %

Environmental Product Declaration(CPCP)   Signature   State	Environmental footprint	
Section   1988		Yes
djobal varming potential (CO2 eq) during operation   192 kg   djobal varming potential (CO2 eq) after end of life   -0.305 kg		·
Committee of poles for main current circuit   3   3   3   3   3   3   3   3   3		į
Number of poles for main current circuit   3		J
number of poles for main current circuit 3 number of NO contacts for main contacts 3 soperating voltage 4 nt AC-3 rated value maximum 690 V ent AC-3 rated value maximum 690 V operational current 4 at AD V at ambient temperature 40 °C rated value ** at AC-1 4 at 400 V at ambient temperature 40 °C rated value ** at AC-1 4 at 400 V at ambient temperature 40 °C rated value ** at AC-3 ** at 400 V at ambient temperature 60 °C rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at AC		oloco ng
Description of NO contacts for main contacts   3		3
operations of AC-3 rated value maximum	· · · · · · · · · · · · · · · · · · ·	
		. •
• et AC-3e rated value maximum  operational current  • at AC-1 4 400 V at ambient temperature 40 °C rated value  - up to 690 V at ambient temperature 60 °C rated value  - up to 690 V at ambient temperature 60 °C rated value  • at AC-3  - at 400 V rated value  • at AC-3  - at 400 V rated value  • at AC-3  - at 400 V rated value  • at AC-3  - at 400 V rated value  • at AC-3  - at 400 V rated value  - at 690 V rated value  - at 600 V rated value  - at AC-3 up to 690 V totad value  - at AC-3 up to 690 V totad value  - at AC-3 up to 690 V totad value  - at AC-3 up to 590 V totad value  - at AC-3 up to 590 V for current peak value n=20 rated value  - up to 200 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=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 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 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  - at 600 V rated valu		690 V
operational current		
at AC-1 at 400 V at ambient temperature 40 °C rated value     at AC-1     — up to 690 V at ambient temperature 40 °C rated value     — up to 690 V at ambient temperature 60 °C rated value     — up to 690 V at ambient temperature 60 °C rated value     at AC-3     — at 400 V rated value     — at 590 V rated value     — at 690 V rated value     — up to 230 V for current peak value n=20 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 230 V for current peak value n=20 rated value     — up to 230 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 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 500 V for current peak value n=30 rated value     — at 60 V rated value     — at 6		
18 A	<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	18 A
	— up to 690 V at ambient temperature 40 °C rated	18 A
- at 400 V rated value	— up to 690 V at ambient temperature 60 °C rated	16 A
- at 500 V rated value - at 690 V rated value - 4,9 A    • at AC-3e   - at 400 V rated value	• at AC-3	
at AG-3e	— at 400 V rated value	7 A
at AG-3e     — at 400 V rated value     — at 500 V rated value     — at 690 V rated value     — at 690 V rated value     • at AC-4 at 400 V rated value     • at AC-5 au pt 6 890 V rated value     • at AC-5 bu pt 6 400 V rated value     • at AC-5 bu pt 6 400 V rated value     • at AC-5 au pt 6 800 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 690 V for current peak value n=20 rated value     — up to 690 V for current peak value n=20 rated value     • at AC-6a     — up to 230 V for current peak value n=30 rated value     • at AC-6a     — up to 230 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 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     — 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     — 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     — at 690 V rated value     — at 690 V rated value     — at 690 V rated value     — at 600	— at 500 V rated value	6 A
at 400 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at AC-5a up to 690 V rated value at AC-5a 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=20 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 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 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 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 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 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 up to 690 V for current pe	— at 690 V rated value	4.9 A
at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 14 AC-5 au pt 0 690 V rated value at 14 AC-5 up to 400 V rated value at 14 AC-5 up to 400 V rated value at 14 AC-8 au pt 0 230 V for current peak value n=20 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 690 V for current peak value n=20 rated value up to 690 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 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	• at AC-3e	
at AC-4 at 400 V rated value     at AC-5a up to 690 V rated value     at AC-5a up to 690 V rated value     at AC-5a up to 690 V rated value     at AC-5a     at AC-5a     — 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 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 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     — up to 690 V for current peak value n=30 rated value     — at 600 V rated value     3	— at 400 V rated value	
at AC-4 at 400 V rated value     at AC-5a up to 690 V rated value     at AC-5a up to 690 V rated value     at AC-6a     at AC-6a     aup to 230 V for current peak value n=20 rated value     aup to 500 V for current peak value n=20 rated value     aup to 500 V for current peak value n=20 rated value     aup to 500 V for current peak value n=20 rated value     aup to 500 V for current peak value n=20 rated value     aup to 500 V for current peak value n=20 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aup to 500 V for current peak value n=30 rated value     aut 400 V rated value     aut 100 V rated value     aut 20 V rated value     aut 20 V rated value     aut 400 V rate	— at 500 V rated value	6 A
■ at AC-5a up to 690 V rated value     ■ at AC-6b up to 400 V rated value     ■ at AC-6a     — 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 690 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=30 rated value     ● at AC-6a     — 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 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     — at 1400 V rated value     ■ at 690 V rated value     ■ at 690 V rated value     ■ at 1 current path at DC-1     — at 24 V rated value     — at 110 V rated value     — at 220 V rated value     — at 220 V rated value     — at 220 V rated value     — at 240 V r	— at 690 V rated value	
at AC-5b up to 400 V rated value     at AC-6a     — 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=30 rated value     • at AC-6a     — 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 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      — 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      — operational current for approx. 200000 operating cycles at AC-4     • at 400 V rated value     • at 690 V rated value     • at 1 current path at DC-1     — at 24 V rated value     — at 110 V rated value     — at 60 V rated value     — at 440 V rated value     — at 440 V rated value     — at 600 V rated value     — at 600 V rated value     — at 600 V rated value     — at 24 V rated value     — at 20 V rated value     — at		
at AC-6a     — 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 690 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     • at AC-6a     — 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 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     — up to 690 V for current peak value n=30 rated value     — operational current for approx. 200000 operating cycles at AC-4     • at 400 V rated value     • at 690 V rated value     • at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value     — at 110 V rated value     — at 220 V rated value     — at 600 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 690 V for current peak value n=20 rated value • at AC-6a - up to 230 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 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  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  • at 1 current path at DC-1 - at 24 V rated value - at 60 V rated value - at 60 V rated value - at 600 V rated value - at 440 V rated value - at 600 V rated value - at 440 V rated value - at 24 V rated value - at 25 A - at 110 V rated value - at 20 V rated value - at 440 V rated value	•	5.8 A
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 at AC-6a 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 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 up to 690 V for current peak value n=30 rated value value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  at 400 V rated value at 400 V rated value at 24 V rated value at 24 V rated value at 400 V rated value at 600 V rated value at 24 V rated value at 200 V rated val		
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=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 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 up to 690 V for current peak value n=30 rated value at 400 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 600 V rated value at 100 V rated value at 24 V rated value at 200 V rated value	·	
- up to 690 V for current peak value n=20 rated value  • at AC-6a  - up to 230 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  2.5 A  - up to 690 V for current peak value n=30 rated value 2.5 A  - up to 690 V for current peak value n=30 rated value 2.5 mm²  value  minimum cross-section in main circuit at maximum AC-1 rated value 2.5 mm²  2.5 mm²  value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value 1.8 A  operational current  • at 1 current path at DC-1  - at 24 V rated value 15 A  - at 10 V rated value 15 A  - at 110 V rated value 1.5 A  - at 420 V rated value 0.6 A  - at 440 V rated value 0.42 A  • with 2 current paths in series at DC-1  - at 24 V rated value 15 A  • at 10 V rated value 15 A  • at 10 V rated value 15 A  • at 60 V rated value 15 A  • at 10 V rated value 15 A  • with 2 current paths in series at DC-1  - at 220 V rated value 15 A  • at 110 V rated value 15 A  • at 110 V rated value 15 A  • at 120 V rated value 15 A  • at 120 V rated value 15 A  • at 140 V rated value 15 A	·	
• at AC-6a  — 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 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  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value  15 A — at 10 V rated value 15 A — at 220 V rated value 0.6 A — at 440 V rated value 0.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 15 A — at 100 V rated value 15 A — at 100 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 220 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 24 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 20 V rated value 9.44 A 9.44 A 9.45 A 9.46 A 9.47 A 9.48 A 9.49 A 9.49 A 9.40 A 9.4		
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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  at 24 V rated value at 60 V rated value at 440 V rated value at 600 V rated value at 24 V rated value at 25 A 2.5 mm²  2.6 A 2.6 A 4.7 A 2.5 mm²  2.6 A 4.8 A 4.8 A 4.9 A 4.9 A 4.9 V rated value at 200 V rated value at 440 V rated value	·	3.0 A
up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 440 V rated value  at 440 V rated value  at 600 V rated value  at 24 V rated value  at 220 V rated value  at 24 V rated value  at 40 V rated value  at 440 V rated value  -	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.7 A
	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.7 A
minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  • at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value — at 60 V rated value	·	2.5 A
value         operational 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           operational current           • at 1 current path at DC-1		
AC-4         ● at 400 V rated value       2.6 A         ● at 690 V rated value       1.8 A         Operational current         ● at 1 current path at DC-1       15 A         — at 24 V rated value       15 A         — at 60 V rated value       1.5 A         — at 110 V rated value       0.6 A         — at 440 V rated value       0.42 A         — at 600 V rated value       0.42 A         ● with 2 current paths in series at DC-1       15 A         — at 24 V rated value       15 A         — at 60 V rated value       15 A         — at 110 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	value	2.5 mm <sup>2</sup>
● at 690 V rated value  operational current  ● at 1 current path at DC-1  — at 24 V rated value — at 60 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  ● with 2 current paths in series at DC-1  — at 24 V rated value 15 A  ■ at 20 V rated value 15 A  ■ at 20 V rated value 15 A  ■ at 24 V rated value 15 A  — at 60 V rated value 15 A  — at 20 V rated value 15 A  — at 110 V rated value 15 A  — at 110 V rated value 15 A  — at 440 V rated value 0.6 A	AC-4	2.6.Δ
operational current          • at 1 current path at DC-1		
<ul> <li>at 1 current path at DC-1         <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1         <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> </ul> </li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>60 A</li> </ul>		
- at 24 V rated value 15 A - at 60 V rated value 1.5 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  • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 V rated value 15 A - at 60 V rated value 15 A - at 110 V rated value 15 A - at 120 V rated value 15 A - at 120 V rated value 1.2 A - at 440 V rated value 1.2 A - at 440 V rated value 0.6 A	•	
- at 60 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  • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 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		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  • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 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		
<ul> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 2 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> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> </ul>		
<ul> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 2 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> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 440 V rated value</li> </ul>		
<ul> <li>— at 600 V rated value</li> <li>• with 2 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> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 440 V rated value</li> </ul>		
— at 24 V rated value       15 A         — at 60 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	0.42 A
— at 24 V rated value       15 A         — at 60 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	• with 2 current paths in series at DC-1	
— at 110 V rated value       8.4 A         — at 220 V rated value       1.2 A         — at 440 V rated value       0.6 A	-	15 A
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.6 A</li> </ul>	— at 60 V rated value	15 A
— at 440 V rated value 0.6 A	— at 110 V rated value	8.4 A
	— at 220 V rated value	1.2 A
— at 600 V rated value 0.5 A	— at 440 V rated value	0.6 A
	— at 600 V rated value	0.5 A

with 3 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 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
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 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-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
• up to 500 V for current peak value n=20 rated value	3.3 kVA
• up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.2 kVA
• up to 690 V for current peak value n=30 rated value	2.9 kVA
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>	120 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	67 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	52 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	43 A; Use minimum cross-section acc. to AC-1 rated value
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-3e maximum	750 1/h
• at AC-4 maximum	250 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	110 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
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  Auxiliary circuit	Standard A1 - A2
	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	40.4
at 230 V rated value     at 400 V rated value	10 A 3 A
<ul><li>at 400 V rated value</li><li>at 500 V rated value</li></ul>	3 A 2 A
at 500 V rated value     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	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
<ul><li>for single-phase AC motor</li><li>— at 110/120 V rated value</li></ul>	0.25 hp
— at 110/120 V rated value  — at 230 V rated value	0.25 hp 0.75 hp
for 3-phase AC motor	0.1 O TIP
— 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	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	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
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
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
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
onnections/ Terminals	0 111111
type of electrical connection	and a land of town in the
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
— solid or stranded	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>for AWG cables 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	
solid or stranded	0.5 4 mm²
• finely stranded with core end processing	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	
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	( ··· ·-)
section	
• for main contacts	20 12
for auxiliary contacts	20 12
• for auxiliary contacts	
afety related data	
·	

No
Yes
Yes
20 a
Yes
40 %
73 %
1 000 000
100 FIT
3
Yes
Type A
IP20
finger-safe, for vertical contact from the front

**General Product Approval** 





Confirmation



<u>KC</u>

**General Product Ap**proval

EMV

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

**Special Test Certific**ate





Marine / Shipping











**Miscellaneous** 

other

other

Railway

Dangerous goods

**Environment** 

Confirmation

**Special Test Certific-**<u>ate</u>

**Transport Information** 



Environmental Con-firmations

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=3RT2015-2BF41

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-2BF41}$ 

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

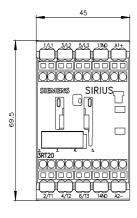
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BF41}$ 

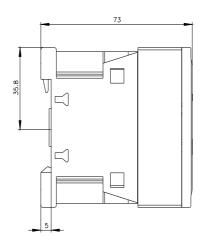
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

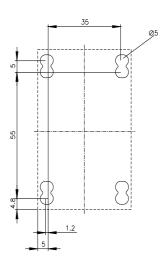
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2BF41&lang=en

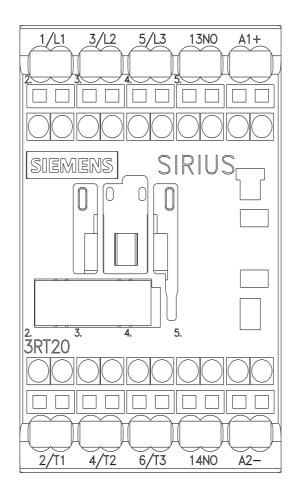
Characteristic: Tripping characteristics, I²t, Let-through current

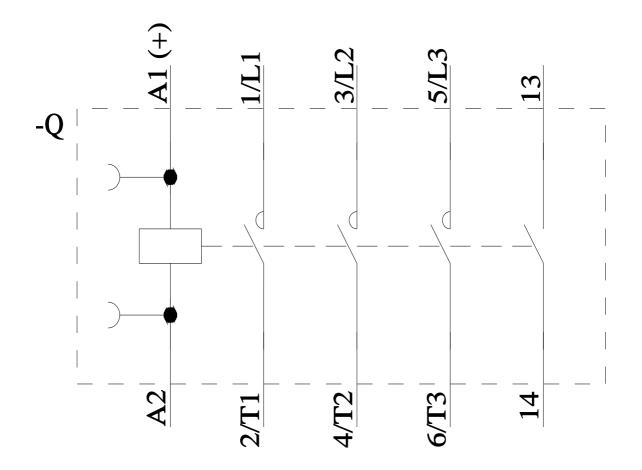
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BF41/char











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