# **SIEMENS**

Data sheet 3RT2035-1AP04



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.2 W
<ul> <li>without load current share typical</li> </ul>	16 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	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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)	10/01/2014
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 %
Main circuit	

intumber of Police for Main Current circuit intumber of Wood protective for main current circuit intumber of Wood protective for main current operating vottage  at AC-3 rated value maximum  at AC-1 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 00 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 to 600 V rated value  at AC-3 at 00 V for current peak value n=20 rated value  at AC-3 at 00 V rated value  at Coursent peak value n=30 rated value  at AC-3 at 00 V rated value  at Coursent peak value n=30 rated  at AC-3 at 00 V rated value  at Coursent peak value n=30 rated  at AC-3 at 00 V rated value  at AC-		0
operating voltage	number of poles for main current circuit	3
• at AC-3 rated value maximum • at AC-3 rated value maximum • at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 • at AC-1 • at AC-1 • at AC-1 • at 00 V at ambient temperature 60 °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 400-7 stade value • at 500 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=30 rated value • au to 400 V rated value • au		3
■ at AC-3e rated value maximum opporational current       ■ at AC-1 at 400 V at ambient temperature 40 °C rated value       ■ at AC-1       ■ up to 890 V at ambient temperature 40 °C rated value       ■ up to 890 V at ambient temperature 60 °C rated value       ■ up to 890 V at ambient temperature 60 °C rated value       ■ at AC-3       ■ at 400 V rated value       ■ at 690 V rated value       ■ at 400 V rated value       ■ at AC-3       ■ at 400 V rated value       ■ at 690 V rated value       ■ at AC-3       ■ at 400 V rated value       ■ at AC-3       ■ at 400 V rated value       ■ at AC-5 up to 400 V rated value       ■ at AC-5 up to 400 V rated value       ■ at AC-5 up to 400 V rated value       ■ at AC-5 up to 400 V for current peak value n=20 rated value       ■ up to 230 V for current peak value n=20 rated value       ■ up to 900 V for current peak value n=20 rated value       ■ up to 900 V for current peak value n=20 rated value       ■ up to 900 V for current peak value n=30 rated value       ■ up to 900 V for current peak value n=30 rated value       ■ up to 900 V for current peak value n=30 rated value       ■ up to 900 V for current peak value n=30 rated value       ■ up to 900 V for current peak value n=30 rated value       ■ up to 900 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ up to 400 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ up to 200 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak value n=30 rated value       ■ at AC-3 up to 900 V for current peak		000.17
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 590 V at ambient temperature 60 °C rated value     — up to 590 V at ambient temperature 60 °C rated value     — at 500 V rated value     — at 500 V rated value     — at 600 V rated value     — up to 680 V rated value     — up to 680 V rated value     — up to 680 V for current peak value n=20 rated value     — up to 680 V for current peak value n=20 rated value     — up to 680 V for current peak value n=20 rated value     — up to 680 V for current peak value n=20 rated value     — up to 680 V for current peak value n=20 rated value     — up to 580 V for current peak value n=20 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 580 V for current peak value n=30 rated value     — up to 590 V for current peak value n=30 rated value     — up to 590 V for current peak value n=30 rated value     — up to 200 V for current peak value n=30 rated value     — up to 200 V for current peak value n=30 rated value     — up to 400 V for devalue     — at 60 V rated value     — at 60 V		690 V
rated value — up to 590 V at ambient temperature 40 °C rated value — up to 590 V at ambient temperature 60 °C rated value — at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 41 A — at 500 V rated value — at 41 A — at 500 V rated value — at 41 A — at 500 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — at AC-3a — at 400 V rated value — at AC-3a — at 400 V rated value — at AC-3a — 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 —	•	00.4
e at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 990 V at ambient temperature 60 °C rated value  e at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at AC-3e up to 690 V rated value — at AC-3e up to 690 V rated value — at AC-5e up to 690 V rated value — at AC-5e up to 690 V rated value — at AC-5e up to 690 V rated value — at AC-5e up to 690 V rated value — up to 230 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 100 V for current peak value n=30 rated value — up to 590 V for current peak value n=30 rated value — up to 100 V for current peak value n=30 rated value — up to 100 V for current peak value n=30 rated		60 A
— up to 890 V at ambient temperature 40 °C rated value — up to 890 V at ambient temperature 80 °C rated value • at AC-3 — at 400 V rated value • at 500 V rated value — at 590 V rated value — at 590 V rated value — at 690 V rated value — at AC-4 at 400 V rated value — at AC-5 au pto 690 V rated value — at AC-6 au pto 690 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 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 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		
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rated value		00 A
rated value	— up to 690 V at ambient temperature 60 °C	55 A
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	• at AC-3	
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at AG-3a     — at 400 V rated value     — at 500 V rated value     — at 500 V rated value     — at 690 V rated value     3t AG-4 at 400 V rated value     3t AG-5a up to 800 V rated value     33.2 A     at AG-5a up to 800 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=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=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 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 n=30 rated     value     value     — up to 690 V for current peak value n=30 rated     valu	— at 500 V rated value	41 A
at 400 V rated value	— at 690 V rated value	24 A
at 500 V rated value	• at AC-3e	
- at 690 V rated value	— at 400 V rated value	41 A
at AC-4 at 400 V rated value     at AC-5u p to 690 V rated value     at AC-5u p to 400 V rated value     at AC-5u p to 400 V rated value     at AC-5u p to 400 V rated value n=20 rated value     — up to 300 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 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     — 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 110 V rated value     — at 22 V rated value     — at 22 V rated value     — at 24 V rated value     — at 24 V rated value     — at 24 V rated value     — at 600 V rated valu	— at 500 V rated value	
• at AC-5a up to 690 V rated value • at AC-5b up to 200 V rated value • at AC-5b up to 200 V for current peak value n=20 rated value — up to 200 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 — 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 — 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 690 V rated value — at 600 V rated value — at 400 V rated value — at 20 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at		
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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 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 230 V for current peak value n=30 rated value     — up to 200 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 400 V rated value     — at 600 V rated value     — at 100 V rated value     — at 100 V rated value     — at 220 V rated value     — at 440 V rated value     — at 60 V rated value     — at 24 V rated value     — at 60 V rated value		
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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 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 400 V for current peak value n=30 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 400 V for current peak value n=30 rated value          — at 600 V rated value          — at 100 V rated value          — at 24 V rated value          — at 24 V rated value          — at 440 V rated value          — at 600 V rated value          — at 600 V rated value          — at 600 V rated value          — at 60 V rated value          — at 24 V rated value          — at 60 V rated val		26 5 4
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 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 up to 690 V for current peak value n=30 rated value valu		30.3 A
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 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         — at 400 V rated value         — at 400 V rated value         — at 690 V rated value         — at 600 V rated value         — at 60 V rated value         — at 60 V rated value         — at 600 V rated value         — at 600 V rated value         — at 600 V rated value         — at 60 V rated value         — at 24 V rated value         — at 24 V rated value         — at 24 V rated value         — at 60 V rated value         — at 24 V rated value         — at 60 V rated value         —		36.5 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 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 10 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 25 A  ■ with 2 current paths in series at DC-1 — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — 55 A  ■ 56 A  ■ 600 V rated value — 600 V rated value — 600 V rated value — 75 A  ■ 600 V rated value — 75 A  ■ 75 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 — 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 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 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 60 V rated value — at 440 V rated value — at 60 V rated value — at 60 V rated value — at 440 V rated value — at 55 A	<ul> <li>up to 690 V for current peak value n=20 rated</li> </ul>	24 A
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 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 nated va	value	
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  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value — at 55 A — at 80 V rated value — at 410 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — 55 A — at 600 V rated value — 55 A — at 220 V rated value — 55 A — at 220 V rated value — 55 A — at 220 V rated value — 55 A	• 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 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 400 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rate		24.2 A
value         24.2 A           — up to 500 V for current peak value n=30 rated value         24.2 A           — up to 690 V for current peak value n=30 rated value         24 A           minimum cross-section in main circuit at maximum AC-1 rated value         16 mm²           operational current for approx. 200000 operating cycles at AC-4         22 A           • at 400 V rated value         18.5 A           operational current         41 SA           • at 1 current path at DC-1         55 A           — at 24 V rated value         23 A           — at 60 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         55 A           — at 60 V rated value         45 A           — at 220 V rated value         45 A           — at 220 V rated value         5 A           — at 440 V rated value         45 A           — at 60 V rated value         5 A           — at 60 V rated value         5 A           — at 24 V rated value         5 A           — at 600 V rated value         5 A           — at 600 V rated value         5 A           — at 600 V		04.0.4
- 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 690 V rated value  ■ at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 60 V rated value — 55 A — at 440 V rated value — 50 A — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 600		24.2 A
value		24 2 A
walue minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4		
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 22 A • at 690 V rated value 18.5 A  operational current  • at 1 current path at DC-1  — at 24 V rated value 23 A — at 110 V rated value 4.5 A — at 220 V rated value 1A — at 440 V rated value 1A — 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 55 A — at 10 V rated value 55 A  • at 10 V rated value 55 A  • with 2 current paths in series at DC-1  — at 24 V rated value 45 A — at 110 V rated value 55 A — at 440 V rated value 55 A — at 600 V rated value 55 A — at 440 V rated value 55 A — at 440 V rated value 55 A — at 600 V rated value 55 A — at 440 V rated value 55 A  • with 3 current paths in series at DC-1 — at 24 V rated value 55 A	<ul> <li>up to 690 V for current peak value n=30 rated</li> </ul>	24 A
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 600 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 22 V rated value — at 600 V rated value — at 22 V rated value — at 600 V	value	
operational current for approx. 200000 operating cycles at AC-4		16 mm²
e at 400 V rated value		
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>18.5 A</li> <li>operational current</li> <li>at 1 current path 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 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</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> <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> <li>— at 24 V rated value</li> </ul>		
• at 690 V rated value  operational current  • 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 600 V rated value — at 600 V rated value — at 600 V rated value — at 2 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 120 V rated value — at 60 V rated value — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value  • with 3 current paths in series at DC-1 — at 24 V rated value  55 A		22 A
operational current		
• at 1 current path at DC-1  — at 24 V rated value 55 A  — at 60 V rated value 23 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 45 A  — at 110 V rated value 45 A  — at 110 V rated value 45 A  — at 220 V rated value 5 A  — at 440 V rated value 5 A  — at 440 V rated value 5 A  — at 460 V rated value 5 A  — at 220 V rated value 5 A  — at 440 V rated value 5 A  — at 440 V rated value 5 A  — at 440 V rated value 5 A  • with 3 current paths in series at DC-1  — at 24 V rated value 55 A		
- at 24 V rated value 55 A - at 60 V rated value 23 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 55 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 5 A - at 24 V rated value 45 A - at 24 V rated value 5 A - at 440 V rated value 5 A - at 450 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 5 A - at 24 V rated value 5 A - at 24 V rated value 55 A - at 24 V rated value 55 A	•	
- at 60 V rated value 23 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 45 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 5 A - at 440 V rated value 45 A - at 440 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 1 A - at 600 V rated value 5 A - at 440 V rated value 55 A - at 440 V rated value 55 A - at 440 V rated value 55 A		55 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 55 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 55 A - at 440 V rated value 1 A - at 600 V rated value 1 A - at 24 V rated value 55 A  • with 3 current paths in series at DC-1 - at 24 V rated value 55 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 55 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 5 A - at 440 V rated value 1 A - at 600 V rated value 0.8 A  • with 3 current paths in series at DC-1 - at 24 V rated value 55 A	— at 110 V rated value	4.5 A
<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 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 24 V rated value</li> <li>— at 24 V rated value</li> <li>55 A</li> </ul>	— at 220 V rated value	1 A
<ul> <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 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> </ul> </li> <li>with 3 current paths in series at DC-1         <ul> <li>at 24 V rated value</li> <li>55 A</li> </ul> </li> </ul>	— at 440 V rated value	0.4 A
<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>• with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>55 A</li> </ul>	— at 600 V rated value	0.25 A
<ul> <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>• with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>55 A</li> </ul>	<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
<ul> <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>• with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>45 A</li> <li>5 A</li> <li>■ 0.8 A</li> <li>■ 55 A</li> </ul>	— at 24 V rated value	55 A
- at 220 V rated value 5 A - at 440 V rated value 1 A - at 600 V rated value 0.8 A  • with 3 current paths in series at DC-1 - at 24 V rated value 55 A	— at 60 V rated value	45 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>55 A</li> </ul>	— at 110 V rated value	45 A
<ul> <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>55 A</li> </ul>	— at 220 V rated value	
• with 3 current paths in series at DC-1 — at 24 V rated value 55 A		
— at 24 V rated value 55 A		0.8 A
	-	
— at 60 V rated value 55 A		
	— at 60 V rated value	55 A

— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	
at AC-4	44.01.101
• at 400 V rated value	11.6 kW
• at 690 V rated value	16.8 kW
operating apparent power at AC-6a	14 E LV/A
• up to 230 V for current peak value n=20 rated value	14.5 kVA
• up to 400 V for current peak value n=20 rated value	25.2 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	31.6 kVA 28.6 kVA
·	20.0 NVA
operating apparent power at AC-6a	9.6 kVA
up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value	16.8 kVA
<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> </ul>	16.8 KVA 21 kVA
<ul> <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> </ul>	28.6 kVA
short-time withstand current in cold operating state	20.0 NVA
up to 40 °C	
limited to 1 s switching at zero current maximum	843 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	400 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	241 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h

• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	190 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
apparent holding power of magnet coil at AC	
● at 50 Hz	16 VA
inductive power factor with the holding power of the	
coil	0.27
• at 50 Hz	0.37
closing delay	40 90 mg
at AC     appring delay	10 80 ms
opening delay	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard FT - FA
	2
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	6 A
<ul><li>at 400 V rated value</li></ul>	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul><li>at 24 V rated value</li></ul>	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	G A
• at 24 V rated value	6 A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	2 A 2 A
at 50 V rated value      at 110 V rated value	1 A
at 125 V rated value     at 125 V rated value	0.9 A
at 125 V rated value     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	aa, omoning por 100 million (17 v, 1 mr.)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	40 A
at 600 V rated value     at 600 V rated value	41 A
yielded mechanical performance [hp]	117
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp

contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul><li>— with type of coordination 1 required</li></ul>	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
a side by side mounting	60715 Yes
• side-by-side mounting	
height	114 mm
width	55 mm
depth	174 mm
required spacing	
with side-by-side mounting	40
— 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
<ul> <li>for live parts</li> </ul>	
— 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
-	Screw-type terminals
<ul> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> </ul>	Sciew-type terminals
<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
• finely stranded with core end processing connectable conductor cross-section for auxiliary	1 35 mm²
contacts	
solid or stranded	0.5 2.5 mm²
<ul> <li>finely stranded with 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>— solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
for main contacts	18 1
for auxiliary contacts	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	No
positively driven operation according to iEC 00347-	

B10 value with high demand rate according to SN 31920 proportion of dangerous failures

with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

1 000 000

40 % 73 %

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

### Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

### Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 

**Environment** 



Confirmation

Confirmation

Vibration and Shock

Transport Informa-

Environmental Confirmations

## **Further information**

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=3RT2035-1AP04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AP04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AP04

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

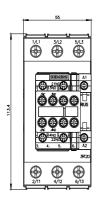
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-1AP04&lang=en

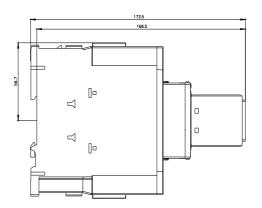
Characteristic: Tripping characteristics, I2t, Let-through current

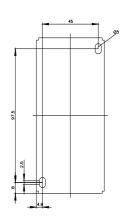
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AP04/char

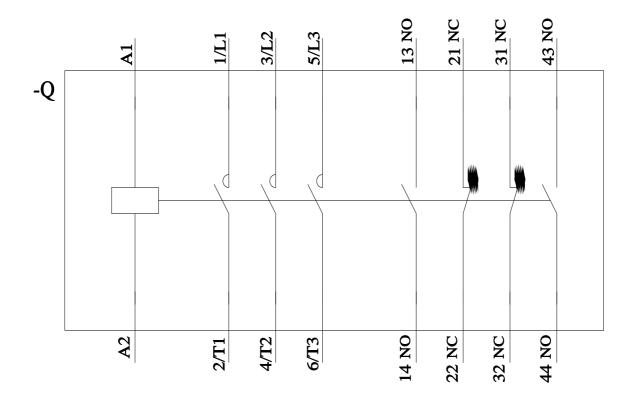
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1AP04&objecttype=14&gridview=view1









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