## **SIEMENS**

Data sheet 3RT2026-2AH00



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 48 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded 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>	5.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	2.5 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 AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	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)	
Weight	0.455 kg
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 %

Environmental Product Declaration(EPD) Yes Global Warming Potential (Co2 eq) dotal Global Warming Potential (Co2 eq) during nanufacturing 1.9 kg Global Warming Potential (Co2 eq) during nanufacturing 72.4 kg Global Warming Potential (Co2 eq) during operation 72.4 kg Global Warming Potential (Co2 eq) during operation 72.4 kg Global Warming Potential (Co2 eq) during operation 72.4 kg Global Warming Potential (Co2 eq) during operation 72.4 kg Global Warming Potential (Co2 eq) during operation 72.4 kg Global Warming Potential (Co2 eq) during operation 72.4 kg Global Warming Valtage	Environmental footprint	
Global Warming Potential (CO2 eq) during manufacturing   1.9 kg		Yes
Global Warming Potential [COZ eq] during manufacturing   1.9 kg		
Global Warming Potential (CO2 eq) after end of life   -0.117 kg	÷	-
Clobal Warming Potential [CO2 eq] after end of life		·
Name of Poles for main current circuit   3		
number of poles for main current circuit         3           number of NO contacts for main contacts         3           operating voltage         • at AC-3 rated value maximum         690 V           • at AC-3 rated value maximum         690 V           operational current         • at AC-1 at 400 V at ambient temperature 40 °C rated value         40 A           • at AC-1         — up to 690 V at ambient temperature 60 °C rated value         40 A           — up to 690 V at ambient temperature 60 °C rated value         35 A           • at AC-3         — at 500 V rated value         18 A           • at AC-3e         — at 500 V rated value         18 A           • at 600 V rated value         15.5 A           • at AC-5e up to 690 V rated value         15.5 A           • at AC-5e up to 690 V rated value         20.2 A           • at AC-5e up to 690 V rated value necessaries         20.2 A           • up to 400 V for current peak value necessaries         20.2 A           • up to 500 V for current peak value necessaries         13.5 A		o. Tri Ng
number of NO contacts for main contacts  operating voltage		3
operating voltage		
at AC-3 rated value maximum     at AC-3 rated value maximum     bego V     at AC-3 rated value maximum     bego V     portational current     at AC-1 at 400 V at ambient temperature 40 °C rated value     alt AC-1 at 400 V at ambient temperature 40 °C rated value     alt AC-1 at 400 V at ambient temperature 60 °C rated value     alt AC-3 up to 690 V at ambient temperature 60 °C rated value     at AC-3 up to 690 V at ambient temperature 60 °C rated value     at AC-3 up to 690 V rated value     at 500 V rated value     at 600 V rated value     at AC-3 up to 690 V rated value     at AC-5 up to 690 V rated value     at AC-5 up to 690 V rated value     at AC-5 up to 690 V rated value     at AC-6 up to 690 V for current peak value n=20 rated value     aup to 500 V for current peak value n=20 rated value     aup to 690 V for current peak value n=20 rated value     aup to 690 V for current peak value n=20 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     augusta descriptions d		
• at AC-3e rated value maximum  • at AC-1		690 V
operational current		
at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-3 — 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 690 V rated value  at AC-3a — at 400 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 690 V rated value  at AC-6a — up to 230 V for current peak value n=20 rated value  up to 600 V for current peak value n=20 rated value  up to 600 V for current peak value n=20 rated value  up to 600 V for current peak value n=20 rated value  up to 600 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=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 AC-4  at 400 V rated value  9 A  operational current for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 100 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 20 A		
up to 690 V at ambient temperature 40 °C rated value	<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-3  — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 600 V rated value — at 600 V rated value — at AC-5a up to 690 V rated value — at AC-5b up to 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 600 V for current peak value n=20 rated value — up to 600 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 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 890 V for current peak value n=30 rated value — up to 890 V for current peak value n=30 rated value — up to 290 V for current peak value n=30 rated value — up to 890 V for current peak value n=30 rated value — up to 290 V for current peak value n=30 rated value — up to 890 V for current peak value n=30 rated value — at 400 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value	— up to 690 V at ambient temperature 40 °C rated	40 A
- at 400 V rated value	— up to 690 V at ambient temperature 60 °C rated	35 A
- at 500 V rated value	• at AC-3	
■ at AC-3e     — at 400 V rated value     ■ at 500 V rated value     — at 500 V rated value     — at 500 V rated value     — at 690 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-5b 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 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     ■ 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     — at 690 V rated value     ● at 4 400 V rated value     ● at 4 400 V rated value     ● at 4 400 V rated value     ● at 600 V rated value     ● at 600 V rated value     ● at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value     — at 220 V rated value     — at 60 V rated value	— at 400 V rated value	25 A
at AC-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value 18 A — at 690 V rated value 15.5 A  at AC-4 at 400 V rated value 15.5 A  at AC-5a up to 690 V rated value 20.7 A  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 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 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 — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 250 V rated value	— at 500 V rated value	18 A
- at 400 V rated value	— at 690 V rated value	13 A
at 500 V rated value	• at AC-3e	
— at 690 V rated value     ■ at AC-4 at 400 V rated value     ■ at AC-5a up to 690 V rated value     ■ at AC-5b up to 400 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 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 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 400 V for current peak value n=30 rated value     — up to 500 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 400 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 60 V rated value     — at 24 V rated value     — at 24 V rated value     — at 20 V rated value     — at 110 V rated value     — at 220 V rated value     — at 24 V vated value     — at 24 V vated value     — at 250 V rated value	— at 400 V rated value	
• at AC-4 at 400 V rated value • at AC-5 up to 690 V rated value • at AC-5 up to 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 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 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  • 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 20 V rated value — at 20 V rated value — at 20 V rated value  — at 220 V rated value	— at 500 V rated value	18 A
at AC-5a up to 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 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=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 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 400 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 110 V rated value     — at 220 V rated value     — at 240 V rated value	— at 690 V rated value	13 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> <li>— up to 230 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> <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> <li>— up to 690 V for current peak value n=20 rated value</li> <li>— up to 230 V for current peak value n=30 rated value</li> <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>— up to 690 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>— up to 690 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>— up to 690 V for current peak value n=30 rated value</li> <li>— at 400 V rated value</li> <li>— at 400 V rated value</li> <li>— at 60 V rated value</li> <li>— at 220 V rated value</li> </ul>		
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 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 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  aup to 690 V for current peak value n=30 rated value  13.5 A  13.5 A  10 mm²  operational current for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 600 V rated value  9 A  operational current  at 1 current path at DC-1 — at 24 V rated value  35 A — at 60 V rated value  4.5 A — at 220 V rated value  1 A	·	
- 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 - 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 - 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 240 V rated value - at 24 V rated value - at 60 V rated value - at 110 V rated value - at 110 V rated value - at 220 V rated value	·	20.7 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  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 1 current path at DC-1 - at 24 V rated value - at 60 V rated value - at 110 V rated value - at 110 V rated value - at 220 V 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 valu	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>12.9 A</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>13.5 A</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>13.5 A</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>13.5 A</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>13 A</li> <li>minimum cross-section in main circuit at maximum AC-1 rated value</li> <li>operational current for approx. 200000 operating cycles at AC-4</li> <li>at 400 V rated value</li> <li>9 A</li> <li>at 690 V rated value</li> <li>9 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 60 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 20 A</li> <li>at 220 V rated value</li> <li>1 A</li> </ul>	·	
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  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  operational current  at 1 current path at DC-1 — at 24 V rated value — at 10 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 1 A	·	
- 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 13.5 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  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 1 A	• at AC-6a	
— up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value  13.5 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  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  — at 110 V rated value  — at 220 V rated value  13.5 A  10 mm²  10 mm²  9 A  9 A  9 A  9 A  4 5 A  1 A	·	
— 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 110 V rated value  — at 220 V rated value  — at 220 V rated value  13 A  10 mm²  10 mm²  9 A  9 A  9 A  9 A  9 A  9 A  9 A  4 5 A  4 5 A  1 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  • 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  10 mm²  9 A  9 A  9 A  9 A  9 A	·	
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  9 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		
AC-4	value	10 mm²
● at 690 V rated value 9 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	AC-4	9.4
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		VA
— 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		
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>1 A</li> </ul>	·	35 A
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>1 A</li> </ul>		
— at 220 V rated value 1 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	·	35 A
— at 60 V rated value 35 A	— at 60 V rated value	35 A
— at 110 V rated value 35 A	— at 110 V rated value	35 A
— at 220 V rated value 5 A	— at 220 V rated value	5 A
— at 440 V rated value 1 A	— at 440 V rated value	1 A
— at 600 V rated value 0.8 A	— at 600 V rated value	0.8 A

with 3 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
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-2 at 400 V rated value	11 kW
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value — at 690 V rated value	11 kW 11 kW
• at AC-3e	11 KVV
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	8 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA
up to 500 V for current peak value n=20 rated value	17.4 kVA
up to 690 V for current peak value n=20 rated value	15.4 kVA
operating apparent power at AC-6a	5.3 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	9.3 kVA
up to 500 V for current peak value n=30 rated value      up to 500 V for current peak value n=30 rated value	11.6 kVA
up to 690 V for current peak value n=30 rated value      up to 690 V for current peak value n=30 rated value	15.5 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	144 A; Use minimum cross-section acc. to AC-1 rated value
● limited to 60 s switching at zero current maximum	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	

• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
<ul><li>at AC-3 maximum</li></ul>	750 1/h
• at AC-3e maximum	750 1/h
<ul> <li>at AC-4 maximum</li> </ul>	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	48 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	77 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 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	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
operational current at AC-15  • at 230 V rated value	10 A
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul>	10 A 3 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value	10 A 3 A 2 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value	10 A 3 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12	10 A 3 A 2 A 1 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value	10 A 3 A 2 A 1 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12	10 A 3 A 2 A 1 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value	10 A 3 A 2 A 1 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value	10 A 3 A 2 A 1 A
operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value  operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A  10 A 2 A 1 A 0.15 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A  10 A 2 A 1 A 0.15 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A  10 A 2 A 1 A 0.15 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 148 V rated value • at 148 V rated value • at 150 V rated value • at 150 V rated value • at 170 V rated value • at 170 V rated value • at 170 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A
operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 125 V rated value at 148 V rated value at 140 V rated value at 125 V rated value at 120 V rated value at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 24 V rated value • at 150 V rated value • at 25 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 110 V rated value • at 125 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 148 V rated value • at 48 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

• for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	o np
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A0007 F000
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
for 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 mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	102 mm
width	45 mm
depth	97 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
<ul> <li>for grounded parts</li> </ul>	
— 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	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 (1 10 mm²)
solid or stranded	2x (1 10 mm²)
finely stranded with core end processing	2x (1 6 mm²)
finely stranded without core end processing	2x (1 6 mm²)
for AWG cables for main contacts	2x (18 8)
connectable conductor cross-section for main contacts	,
• solid	1 10 mm²
stranded	1 10 mm²
finely stranded with core end processing	1 6 mm²
finely stranded without core end processing     finely stranded without core end processing	1 6 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 mm <sup>2</sup>
finely stranded without core end processing	0.5 2.5 mm <sup>2</sup>

type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 8
<ul> <li>for auxiliary contacts</li> </ul>	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 60947-5-1</li> </ul>	No
<ul> <li>suitable for safety function</li> </ul>	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
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
Approvals Certificates	
Compared Drawland Appropriate	

General Product Approval



Confirmation







<u>KC</u>

General Product Approval

EMV

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping



Confirmation



Confirmation



Special Test Certificate





Miscellaneous

other

other

Railway

Environment



Environmental Confirmations

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=3RT2026-2AH00

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2026-2AH00}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AH00

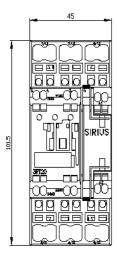
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

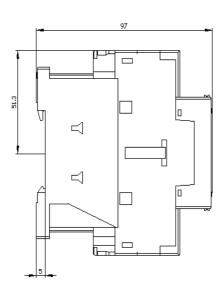
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-2AH00&lang=en

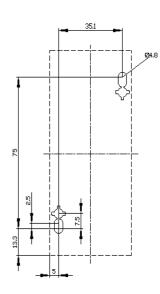
Characteristic: Tripping characteristics, I2t, Let-through current

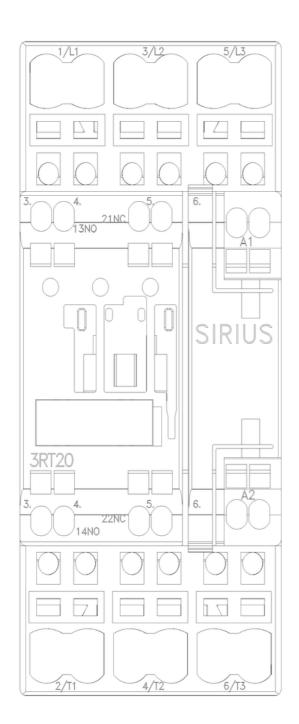
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AH00/char

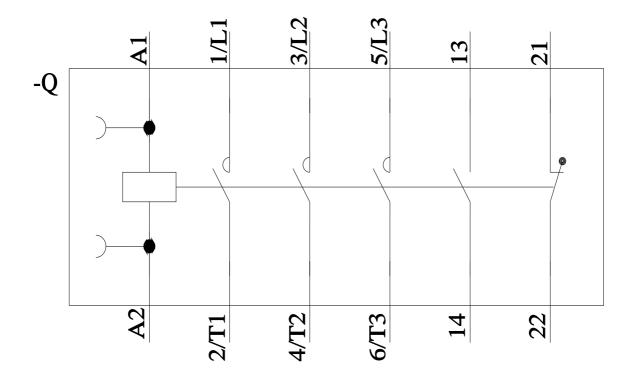
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AH00&objecttype=14&gridview=view1











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