# **SIEMENS**

Data sheet 3RT2035-3AP00



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

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	Yes
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
without load current share typical	6 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	60 A
value	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	60 A
— up to 690 V at ambient temperature 60 °C rated	55 A
value	
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	35 A
• at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated 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	
• 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	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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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 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
	1.4 A
— at 600 V rated value	1.171

	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
* with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value  * with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 100 V rat	— 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
■ with 3 current paths in series at DC-3 at DC-5	— at 220 V rated value	5 A
### with 3 current paths in series at DC-3 at DC-5  ### at 24 V rated value ### at 25 A  ### at 10 V rated value ### at 25 A  ### at 40 V rated value	— 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 110 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value 20 rated value at 600 V rated value 20 rated value at 600 V rated value 20 rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated value at 600 V for current peak value n-80 rated va	— at 24 V rated value	55 A
	— at 60 V rated value	55 A
	— at 110 V rated value	55 A
A   C   C   A   C   C	— at 220 V rated value	25 A
A   C   C   A   C   C	— at 440 V rated value	0.6 A
at AC2 at 400 V rated value		
* at AC-2 at 400 V rated value * at AC-3		
- at 230 V rated value		18.5 kW
at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value 22 kW at 690 V rated value 22 kW at 690 V rated value at 690 V rated value at 230 V rated value at 690 V roc current peak value n=20 rated value at 690 V for current peak value n=20 rated value at 690 V for current peak value n=20 rated value at 690 V for current peak value n=20 rated value at 690 V for current peak value n=30 rated value at 690 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current peak value n=30 rated value at 680 V for current		
		11 kW
- at 500 V rated value		
- at 690 V rated value		
• at AC-3e  — at 230 V rated value — at 400 V rated value — at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 600 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 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V f		
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at 400 V rated value  at 690 V rated value  16.8 kW  16.8 kW  operating apparent power 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 230 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 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  short-time withstand current in cold operating state up to  40 °C  ilimited to 1 s switching at zero current maximum  limited to 5 switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  at AC-3 maximum  1 200 1/h  at AC-2 maximum  at AC-3 maximum  1 000 1/h  at AC-3 maximum  1 000 1/h  at AC-4 maximum  at AC-4 maximum  300 1/h		
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up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  28.6 kVA  perating apparent power 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  28.6 kVA		
• up to 690 V for current peak value n=20 rated value  operating apparent power 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     • limited to 1 s switching at zero current maximum     • limited to 5 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching a		
operating apparent power 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 in cold operating state up to  40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  100 at AC-1 rated value  100 1/h  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum		
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     short-time withstand current in cold operating state up to 40 °C      ilimited to 1 s switching at zero current maximum     ilimited to 5 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current		20.0 KVA
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up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching a		
up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C      limited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum     limited to 10 s switching at zero current maximum     limited to 30 s switching at zero current maximum     limited to 30 s switching at zero current maximum     limited to 30 s switching at zero current maximum     limited to 60 s switching at zero current maximum     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-2 maximum  1 200 1/h  at AC-3 maximum  1 000 1/h  at AC-3 maximum  1 000 1/h  at AC-4 maximum  300 1/h		
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value  196 A; Use minimum cross-section acc. to AC-1 rated value		
• limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • 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  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  300 1/h		20.0 KVA
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching frequency</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> </ul>		
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching frequency</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> </ul>		843 A: Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> <li>at AC-4 maximum</li> </ul>	-	
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> <li>at AC-4 maximum</li> <li>300 1/h</li> </ul>		
<ul> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>5 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>	-	
no-load switching frequency       5 000 1/h         operating frequency       1 200 1/h         • 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	-	
<ul> <li>at AC</li> <li>5 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>		100 /1, 000 minimum cross-section acc. to AC-1 rated value
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		5 000 1/b
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>		0 000 nH
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> </ul>		4 200 4/b
<ul> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> </ul>		
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>300 1/h</li> </ul>		
• at AC-4 maximum 300 1/h		
Control circuit/ Control		300 1/n
	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	
● at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	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	40.4
• at 480 V rated value	40 A
at 600 V rated value  Violded machanical performance [hp]	41 A
yielded mechanical performance [hp]	
• for single-phase AC motor	2 hn
— at 110/120 V rated value — at 230 V rated value	3 hp
at 230 v rated value     for 3-phase AC motor	7.5 hp
ior 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 — at 575/600 V rated value	30 hp
	40 hp

contact rating of auxiliary contacts according to UL	A600 / P600	
Short-circuit protection		
design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— with type of coordination 1 required	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)	
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 +/- $22.5^\circ$ on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
side-by-side mounting	Yes	
height	114 mm	
width	55 mm	
depth	130 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	
Connections/ Terminals		
type of electrical connection		
for main current circuit	screw-type 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	Opinig-type terminals	
solid or stranded	2v (4 2F mm²) 1v (4 F0 mm²)	
	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	1 2F mm²	
finely stranded with core end processing	1 35 mm²	
connectable conductor cross-section for auxiliary contacts	0.5 0.5	
solid or stranded	0.5 2.5 mm²	
finely stranded with core end processing	0.5 1.5 mm²	
finely stranded without core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts	0 (0 7 0 7 0)	
— solid or stranded	2x (0.5 2.5 mm²)	
finely stranded with core end processing	2x (0.5 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 14)	
AWG number as coded connectable conductor cross		
section	40 4	
• 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 60947-5-1</li> </ul>		

suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
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 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

Certificates/ approvals

#### **General Product Approval**



Confirmation





<u>KC</u>



Functional Safety/Safet chinery	y of Ma- Declaration of Conformity	Test Certificates
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Type Examination Cer**tificate** 





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

Type Test Certificates/Test Report

### Marine / Shipping













Marine / Shipping	other	Railway	Dangerous Good	Environment



Confirmation

Confirmation

Vibration and Shock

**Transport Information** 

**Environmental Confirmations** 

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

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

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

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-3AP00

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2035-3AP00}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AP00

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

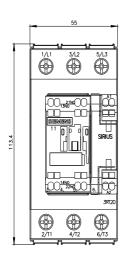
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-3AP00&lang=en

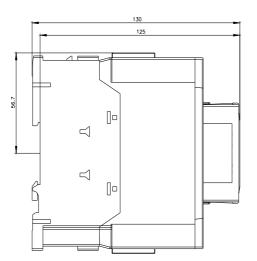
Characteristic: Tripping characteristics, I2t, Let-through current

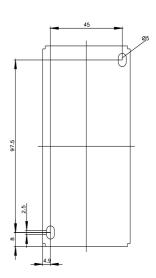
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AP00/char

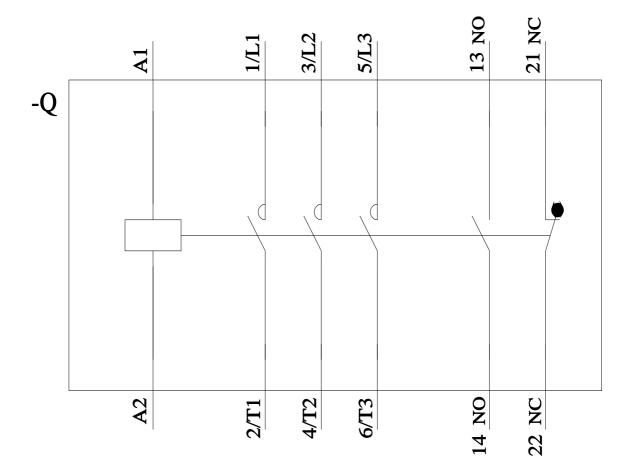
Further characteristics (e.g. electrical endurance, switching frequency)

3RT2035-3AP00&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb



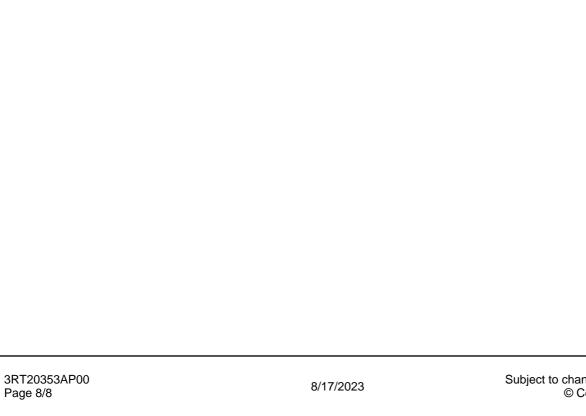






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