## **SIEMENS**

Data sheet 3RT2535-1AK60



Contactor, 2NO + 2NC, AC-3, 18.5 kW, 110 V AC, 50 Hz / 120V, 60Hz, 4-pole, 2NO + 2NC, Size S2, Screw terminal 1 NO + 1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
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 safe isolation between coil and main contacts acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C acc. to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4

Inumber of NC contacts for main contacts   2	number of NO contacts for main contacts	2
exertional current  ■ at C-1 up to 890 V  — at a miblent temperature 40 °C rated value — at an miblent temperature 60 °C rated value — at AC-2 at AC-2 at 400 V v  — per NC contact rated value — per NC contact rated value — per NC contact rated value — at 10 C rated value — at 40 V rated value — at 110 V rated value — at 140 V rated value — at 120 V rated value — at 120 V rated value — at 140 V rated value — at 140 V rated value — at 120 V rated value — at 140 V rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 120 V per NC contact rated value — at 120 V per NC contact rated value — at 140 V per NC contact rated value — at 140 V per NC contact rated value — at 140 V per NC contact rated value — at 140 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V		
	operational current	
- at ambient temperature 80 °C rated value	• at AC-1 up to 690 V	
AC-2 at AC-3 at 40 V P Pr NC contact rated value     — per NC contact rated value     — per NC contact rated value     — per NC contact rated value     at 1 current path at DC-1     — at 24 V rated value     — at 220 V rated value     — at 24 V rated value     — at 24 V rated value     — at 220 V rated value     — at 24 V per NC contact rated value     — at 440 V rated value     — at 24 V per NC contact rated value     — at 24 V per NC contact rated value     — at 24 V per NC contact rated value     — at 24 V per NC contact rated value     — at 220 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 240 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value     — at 220 V per NC contact rated value	<ul> <li>at ambient temperature 40 °C rated value</li> </ul>	60 A
per NO contact rated value per NC contact rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current  • at 1 current path at DC-1  at 24 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 410 V rated value at 420 V rated value at 420 V rated value at 420 V rated value at 220 V per NC contact rated value at 420 V per NC contact rated value at 420 V per NC contact rated value at 420 V per NC contact rated value at 440 V per NC contact rated value at 440 V per NC contact rated value at 440 V per NC contact rated value at 240 V per NC contact rated value at 250 V per NC contact rated valu	— at ambient temperature 60 °C rated value	55 A
per NC contact rated value operational current at 24 V rated value at 120 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 24 V rated value at 25 V rated value at 24 V rated value	• at AC-2 at AC-3 at 400 V	
Infilimum cross-section in main circuit at maximum AC-1 alted value  at 1 current path at DC-1  at 24 V rated value  at 120 V rated value  at 120 V rated value  at 140 V rated value  at 220 V rated value  at 240 V rated value  at 100 V per NC contact rated value  at 100 V per NC contact rated value  at 100 V per NC contact rated value  at 220 V per NC contact rated value  at 220 V per NC contact rated value  at 440 V per NC contact rated value  at 110 V per NC contact rated value  at 120 V per NC contact rated value  at 20 V per NC contact rated value  a	<ul> <li>per NO contact rated value</li> </ul>	35 A
rated value  perational current  at 10 v rated value  at 220 V rated value  at 440 V rated value  at 440 V rated value  at 110 V rated value  55 A  at 110 V rated value  55 A  1A  perational current  at 110 V per NC contact rated value  at 220 V rated value  35 A  35 A  36 A  37 A  38 A  39 A  30 A  30 A  30 A  30 A  30 A  30 A  31 A  30 A  40 Y per NC contact rated value  30 A  30 A  30 A  30 A  40 Y per NC contact rated value  30 A  30 A  30 A  40 Y per NC contact rated value  30 A  30 A  40 Y per NC contact rated value  30 A  30 A  40 Y per NC contact rated value  30 A  31 A  32 A  40 Y per NC contact rated value  34 A V per NC contact rated value  35 A  36 A  37 A  40 Y per NC contact rated value  38 A  39 A  40 Y per NC contact rated value  30 A  40 Y per NC contact rated value  30 A  40 Y per NC contact rated value  31 A  32 A  40 Y per NC contact rated value  40 Y per NC contact rate	<ul> <li>per NC contact rated value</li> </ul>	35 A
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at 24 V rated value	operational current	
- at 110 V rated value - at 240 V rated value - at 440 V rated value  • with 2 current paths in series at DC-1 - at 24 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 220 V rated value - at 240 V rated value - at 1 current path at DC-3 at DC-5 - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 120 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 240 V per NC contact rated value - at 240 V per NC contact rated value - at 240 V per NC contact rated value - at 240 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 120 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 230 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per	<ul> <li>at 1 current path at DC-1</li> </ul>	
	— at 24 V rated value	55 A
■ with 2 current paths in series at DC-1           — at 24 V rated value         55 A           — at 110 V rated value         55 A           — at 140 V rated value         55 A           — at 140 V rated value         1A           — at 1440 V rated value         1A           — at 1440 V rated value         1A           — at 1440 V per No contact rated value         35 A           — at 110 V per NO contact rated value         35 A           — at 110 V per NO contact rated value         1.25 A           — at 110 V per NO contact rated value         2.5 A           — at 220 V per NO contact rated value         0.5 A           — at 240 V per NO contact rated value         0.4 A           — at 440 V per NO contact rated value         0.4 A           — at 440 V per NO contact rated value         0.1 A           — with 2 current paths in series at DC-3 at DC-5	— at 110 V rated value	4.5 A
with 2 current paths in series at DC-1         — at 124 V rated value         — at 110 V rated value         — at 220 V rated value         — at 440 V rated value         — at 24 V per NC contact rated value         — at 24 V per NC contact rated value         — at 24 V per NC contact rated value         — at 110 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 240 V per NC contact rated value         — at 240 V per NC contact rated value         — at 240 V per NC contact rated value         — at 240 V per NC contact rated value         — at 24 V per NC contact rated value         — at 24 V per NC contact rated value         — at 24 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 220 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated value         — at 230 V per NC contact rated val	— at 220 V rated value	1 A
	— at 440 V rated value	0.4 A
	<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
- at 220 V rated value	— at 24 V rated value	55 A
operational current  • at 1 current path at DC-3 at DC-5  — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 220 V per NC contact rated value — at 440 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value  • with 2 current paths in series at DC-3 at DC-5 — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 440 V per NC contact rated value — at	— at 110 V rated value	45 A
o at 1 current path at DC-3 at DC-5	— at 220 V rated value	5 A
at 1 current path at DC-3 at DC-5  — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 120 V per NC contact rated value — at 220 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 440 V per NC contact rated value — at 420 V per NC contact rated value — at 440 V per NC contact rated value — at 420 V per NC contact rated value — at 440 V per NC contact rated value — at	— at 440 V rated value	1 A
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- at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 400 V per NC contact rated valu	<ul> <li>— at 24 V per NC contact rated value</li> </ul>	35 A
- at 110 V per NO contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 440 V per NC contact rated value - at 400 V per NC conta	<ul> <li>— at 24 V per NO contact rated value</li> </ul>	35 A
- at 220 V per NC contact rated value - at 220 V per NO contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 210 V per NC contact rated value - at 210 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC cont	<ul> <li>— at 110 V per NC contact rated value</li> </ul>	1.25 A
- at 220 V per NO contact rated value - at 440 V per NC contact rated value - at 440 V per NO contact rated value - at 440 V per NO contact rated value • with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NO conta	<ul> <li>— at 110 V per NO contact rated value</li> </ul>	2.5 A
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- at 24 V per NC contact rated value - at 24 V per NO contact rated value - at 210 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NO contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 420 V per NO contact rated value - at 440 V per NC contact rated value - at 230 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 400 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated va	<ul> <li>— at 440 V per NO contact rated value</li> </ul>	0.1 A
- at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value  operating power at AC-2 at AC-3  • at 230 V per NC contact rated value 11 kW • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • 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	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
- at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value 0.135 A 0.27 A  operating power at AC-2 at AC-3  • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum	<ul> <li>— at 24 V per NC contact rated value</li> </ul>	55 A
- at 110 V per NO contact rated value - at 220 V per NC contact rated value - at 220 V per NO contact rated value - at 440 V per NO contact rated value - at 440 V per NO contact rated value - at 440 V per NO contact rated value - at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact 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 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum	·	
- at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 440 V per NC contact rated value - at 440 V per NC contact rated value 0.27 A  operating power at AC-2 at AC-3  • at 230 V per NC contact rated value 11 kW • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum		
- at 220 V per NO contact rated value - at 440 V per NC contact rated value - at 440 V per NO contact rated value 0.27 A  operating power at AC-2 at AC-3  • at 230 V per NC contact rated value 11 kW • at 230 V per NO contact rated value 11 kW • at 400 V per NC contact rated value 18.5 kW • at 400 V per NO contact rated value 18.5 kW  short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum   limited to 1 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	·	
- at 440 V per NC contact rated value - at 440 V per NO contact rated value  operating power at AC-2 at AC-3  • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • bimited 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 swit	•	
operating power at AC-2 at AC-3  • at 230 V per NC contact rated value  • at 230 V per NC contact rated value  • at 400 V per NC contact rated value  • at 400 V per NC contact rated value  • at 400 V per NC contact rated value  • at 400 V per NC contact rated value  • at 400 V per NC contact rated value  • at 400 V per NC contact rated value  • at 400 V per NC contact 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 30 s switching at zero current maximum  • limited to 60 s swi		
operating power at AC-2 at AC-3  • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact 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  power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency • at AC  11 kW  12 kW  18.5 kW  546 A; Use minimum cross-section acc. to AC-1 rated value  443 A; Use minimum cross-section acc. to AC-1 rated value  444 A; Use minimum cross-section acc. to AC-1 rated value  444 W  444 W  55 000 1/h	·	
<ul> <li>at 230 V per NC contact rated value</li> <li>at 230 V per NO contact rated value</li> <li>at 400 V per NC contact rated value</li> <li>at 400 V per NO contact rated value</li> <li>at 400 V per NO contact rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 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 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 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 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 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 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 at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at</li></ul>	·	0.27 A
<ul> <li>at 230 V per NO contact rated value</li> <li>at 400 V per NC contact rated value</li> <li>at 400 V per NO contact rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 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 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 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 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 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 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 at zero current maximum</li> <li>limited to 60 s switching at zero current maxi</li></ul>		
<ul> <li>at 400 V per NC contact rated value</li> <li>at 400 V per NO contact rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 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 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 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 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 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 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 at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zer</li></ul>		
<ul> <li>at 400 V per NO contact rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 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 at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>at AC</li> <li>5 000 1/h</li> </ul>	·	
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  olimited to 60 s switching at zero current maximum  power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency • at AC  5 000 1/h	·	
<ul> <li>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 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 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 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 40 s switching at zero current maximum</li> <li>limited to 40 s switching at zero current maximum</li></ul>		18.5 KW
<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 at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>5 000 1/h</li> </ul>	up to 40 °C	540 A III
<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>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>5 000 1/h</li> <li>241 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>4 W</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>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> </ul> 4 W 5 000 1/h	_	
<ul> <li>limited to 60 s switching at zero current maximum</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency</li> <li>at AC</li> <li>5 000 1/h</li> </ul>	_	
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor  no-load switching frequency  • at AC  5 000 1/h	<u> </u>	
operational current per conductor  no-load switching frequency  • at AC  5 000 1/h		
no-load switching frequency  ● at AC 5 000 1/h		4 VV
• at AC 5 000 1/h		
		5 000 1/h
operating requestoy across maximum 1.200 mm	operating frequency at AC-1 maximum	1 200 1/h
	Control circuit/ Control	

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 V·A
● at 60 Hz	188 V·A
inductive power factor with closing power of the coil	0.72
● at 50 Hz	0.69
● at 60 Hz	0.65
apparent holding power of magnet coil at AC	17.2 V·A
• at 50 Hz	17.2 V·A
● at 60 Hz	16.5 V·A
inductive power factor with the holding power of the	0.36
coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
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	AC
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	6 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
at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
	A600 / P600
contact rating of auxiliary contacts according to UL	
contact rating of auxiliary contacts according to UL Short-circuit protection	
Short-circuit protection design of the fuse link	

• for short-circuit protection of the main circuit - with type of coordination 1 required gG: 125 A (690 V, 100 kA) - with type of assignment 2 required gG: 63A (690V, 100kA) • for short-circuit protection of the auxiliary switch fuse gG: 10 A required 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 standard mounting rail according to DIN EN 50022 • side-by-side mounting Yes height 114 mm width 75 mm depth 130 mm required spacing • with side-by-side mounting 0 mm — forwards - backwards 0 mm — upwards 0 mm - downwards 0 mm at the side 0 mm • for grounded parts - forwards 0 mm - backwards 0 mm - upwards 50 mm - at the side 10 mm - downwards 50 mm for live parts mm

o for the parts	
— forwards	0 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	10 mm
Connections/ Terminals	

type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections	

- solid - solid or stranded finely stranded with core end processing • at AWG cables for main contacts

2x (1 ... 35 mm<sup>2</sup>), 1x (1 ... 50 mm<sup>2</sup>) 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) 2x (18 ... 2), 1x (18 ... 1)

type of connectable conductor cross-sections for auxiliary contacts

> — solid - solid or stranded - finely stranded with core end processing

• at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14)

18 ... 1

section for main contacts Safety related data

product function mirror contact acc. to IEC 60947-4-1 product function positively driven operation acc. to IEC 60947-5-1

protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529

Yes No

IP20

finger-safe, for vertical contact from the front

Certificates/ approvals

**General Product Approval** 

• for main contacts

**EMC** 











Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

<u>KC</u>

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



## Marine / Shipping













other

Confirmation

## Further information

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=3RT2535-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2535-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AK60

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

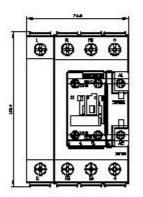
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2535-1AK60\&lang=ender.siemens.com/bilddb/cax\_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bilddb/cax_de.aspx.siemens.com/bil$ 

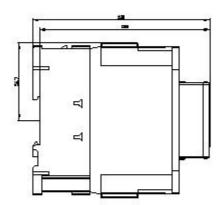
Characteristic: Tripping characteristics, I2t, Let-through current

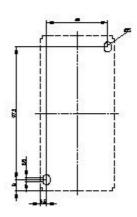
https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AK60/char

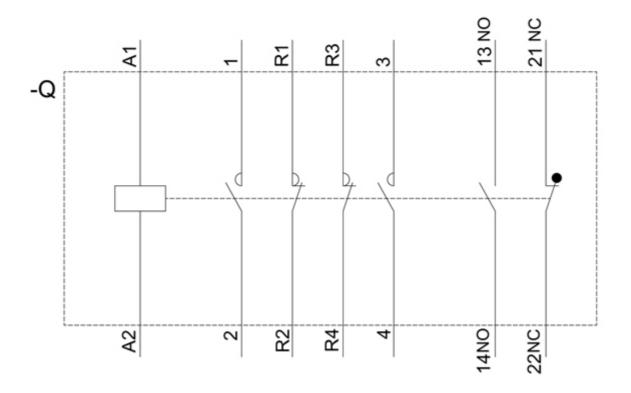
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2535-1AK60&objecttype=14&gridview=view1









last modified: 7/8/2021 🖸