SIEMENS

Data sheet 3RT1044-1AN60

Power contactor, AC-3 65 A, 30 kW / 400 V 200 V AC, 50 Hz / 200-220 V 60 Hz, 3-pole, Size S3, Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2



Figure similar

SIRIUS
power contactor
S3
1 000 V
3
6 kV
690 V
IP20; IP20 on the front with cover / box terminal
IP00
6,8g / 5 ms, 4g / 10 ms

• at AC	10,6g / 5 ms, 6,2g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	100 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	100 A
 up to 690 V at ambient temperature 60 °C rated value 	90 A
— up to 1000 V at ambient temperature 40 °C rated value	50 A
— up to 1000 V at ambient temperature 60 °C rated value	40 A
• at AC-3	
— at 400 V rated value	65 A
— at 690 V rated value	47 A
— at 1000 V rated value	25 A
• at AC-4 at 400 V rated value	55 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	35 mm²
• at 40 °C minimum permissible	35 mm²
Operating current for approx. 200000 operating	
operating outrons for approx. 200000 operating	

cycles at AC-4

• at 400 V rated value

28 A

Operating current ■ at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 124 V rated value — at 124 V rated value — at 124 V rated value — at 110 V rated value — at 24 V rated value — at 290 V ate0 value — at 110 V rated value — at 290 V ate0 value — at 290 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 250 V rated value — at 200 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 1000 V rated value — at 100	• at 690 V rated value	20 A
at 24 V rated value	Operating current	
− at 110 V rated value • with 2 current paths in series at DC-1 − at 24 V rated value − at 110 V rated value − at 124 V rated value − at 110 V rated value − at 24 V rated value − at 110 V rated value − at 24 V rated value − at 24 V rated value − at 120 V rated value − at 24 V rated value − at 250 V at 60 °C rated value − at 200 V rated value − at 690 V rated value − at 690 V rated value − at 690 V rated value − at 200 V rated value − at 690 V rated value −	• at 1 current path at DC-1	
with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 1110 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 1110 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 110 V rated value — at 1110 V rated value — at 1110 V rated value — at 110 V rated value — at 24 V rated value — at 20 V at 60 °C rated value — at 20 V vated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated val	— at 24 V rated value	90 A
	— at 110 V rated value	4.5 A
■ at 110 V rated value ● with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value ■ 25 A □ at 24 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 110 V rated value □ at 24 V rated value □ at 24 V rated value □ at 110 V rated value □ at 24 V rated value □ at 110 V rated value □ at 24 V rated value □ at 24 V rated value □ at 110 V rated value □ at 24 V rated value □ at 25 V rated value □ at 20 V rated value □ at 230 V at 60 °C rated value □ at 690 V rated value □ at 690 V rated value □ at 690 V rated value □ at 60 °C rated value □ at 230 V rated value □ at AC-2 at 400 V rated value □ at AC-3 □ at 230 V rated value □ at AC-3 □ at 230 V rated value □ at 400 V rated value □ at 500 V rated value □ at 500 V rated value □ at 690 V ra	 with 2 current paths in series at DC-1 	
with 3 current paths in series at DC-1 — at 24 V rated value 90 A — at 110 V rated value 90 A Operating current • at 1 current path at DC-3 at DC-5 — at 24 V rated value 40 A — at 1110 V rated value 2.5 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A Operating power • at AC-1 — at 230 V at 60 °C rated value 90 A Operating power • at AC-1 — at 230 V at 60 °C rated value 59 kW — at 690 V rated value 102 kW — at 690 V rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 37 kW — at 690 V rated value 37 kW — at 690 V rated value 30 kW • at 690 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 15.1 kW • at 690 V rated value 16.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 kW	— at 24 V rated value	90 A
	— at 110 V rated value	90 A
— at 110 V rated value 90 A Operating current • at 1 current path at DC-3 at DC-5 — at 24 V rated value 40 A — at 110 V rated value 9.5 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A Operating power • at AC-1 — at 230 V at 60 °C rated value 59 kW — at 400 V rated value 102 kW — at 690 V rated value 102 kW — at 690 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-4 • at 400 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 15.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	 with 3 current paths in series at DC-1 	
Operating current • at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 250 V rated value — at 200 V rated value — at 200 V rated value — at 200 V rated value — at 690 V rated value — at 1000 V at 60 °C rated value — at 1000 V rated value — at 230 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 69	— at 24 V rated value	90 A
* at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value * with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 110 V rated value — at 230 V at 60 °C rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value • at AC-3 — at 230 V rated value • at AC-3 — at 230 V rated value • at 690 V rated value — at 400 V rated value — at 690 V rated value —	— at 110 V rated value	90 A
- at 24 V rated value - at 110 V rated value 2.5 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 90 A - at 110 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 90 A • at 110 V rated value 90 A Operating power • at AC-1 - at 230 V at 60 °C rated value - at 400 V rated value 95 kW - at 690 V rated value 102 kW - at 690 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 90 kW • at AC-3 - at 230 V rated value 118.5 kW - at 400 V rated value 12 kW - at 500 V rated value 90 kW • at AC-3 - at 230 V rated value 91 kW - at 60 °C rated value 92 kW • at AC-3 - at 230 V rated value 930 kW • at AC-3 - at 230 V rated value 930 kW • at AC-4 - at 400 V rated value 930 kW • at 690 V rated value 930 kW • at 400 V rated value 945 kW • at 400 V rated value 950 kW • at 400 V rated value 960 V rated value	Operating current	
 — at 110 V rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 230 V at 60 °C rated value — at 230 V at 60 °C rated value — at 690 V rated value — at 690 V rated value — at 600 V rated value — at 600 V rated value — at 1000 V at 60 °C rated value — at 600 V rated value — at 7 call 400 V rated value — at 7 call 400 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value	• at 1 current path at DC-3 at DC-5	
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A — at 110 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A Operating power • at AC-1 — at 230 V at 60 °C rated value 34 kW — at 400 V rated value 59 kW — at 690 V rated value 102 kW — at 690 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-3 — at 230 V rated value 30 kW • at AC-0 V rated value 30 kW • at 400 V rated value 30 kW — at 500 V rated value 30 kW — at 500 V rated value 30 kW — at 690 V rated value 30 kW Poperating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of	— at 24 V rated value	40 A
- at 24 V rated value 90 A - at 110 V rated value 90 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 90 A Operating power • at AC-1 - at 230 V at 60 °C rated value 59 kW - at 690 V rated value 102 kW - at 100 V at 60 °C rated value 102 kW - at 690 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 - at 230 V rated value 30 kW • at AC-3 - at 230 V rated value 30 kW • at AC-4 - at 400 V rated value 30 kW • at AC-5 - at 240 V rated value 30 kW • at AC-6 - at 400 V rated value 30 kW • at AC-7 - at 250 V rated value 30 kW • at AC-8 - at 400 V rated value 30 kW • at 500 V rated value 30 kW • at 690 V rated value 30 kW • at 400 V rated value 30 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 110 V rated value	2.5 A
- at 110 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 90 A - at 110 V rated value 90 A Operating power • at AC-1 - at 230 V at 60 °C rated value - at 400 V rated value - at 690 V at 60 °C rated value - at 1000 V at 60 °C rated value - at 1000 V at 60 °C rated value - at 1000 V rated value - at 230 V at 60 °C rated value - at 1000 V rated value - at 1000 V rated value • at AC-2 • at AC-3 - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value	• with 2 current paths in series at DC-3 at DC-5	
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 90 A — at 110 V rated value 90 A Operating power • at AC-1 — at 230 V at 60 °C rated value 59 kW — at 690 V rated value 102 kW — at 690 V at 60 °C rated value 102 kW — at 1000 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 30 kW • at AC-3 — at 200 V rated value 30 kW — at 400 V rated value 30 kW — at 400 V rated value 30 kW — at 400 V rated value 30 kW — at 690 V rated value 37 kW — at 690 V rated value 35 kW — at 690 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 24 V rated value	90 A
— at 24 V rated value 90 A — at 110 V rated value 90 A Operating power ■ at AC-1 — at 230 V at 60 °C rated value 59 kW — at 690 V rated value 102 kW — at 690 V at 60 °C rated value 66 W ■ at AC-2 at 400 V rated value 30 kW ■ at AC-3 — at 230 V rated value 30 kW ■ at AC-3 — at 230 V rated value 30 kW ■ at AC-3 — at 230 V rated value 30 kW ■ at AC-0 value 00 V rated value 30 kW ■ at 400 V rated value 30 kW — at 400 V rated value 30 kW — at 400 V rated value 37 kW — at 690 V rated value 45 kW — at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 15.1 kW ■ at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 110 V rated value	90 A
— at 110 V rated value 90 A Operating power ■ at AC-1 — at 230 V at 60 °C rated value 34 kW — at 400 V rated value 102 kW — at 690 V at 60 °C rated value 102 kW — at 1000 V at 60 °C rated value 66 W ■ at AC-2 at 400 V rated value 30 kW ■ at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 30 kW — at 690 V rated value 37 kW — at 690 V rated value 45 kW — at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	• with 3 current paths in series at DC-3 at DC-5	
Operating power • at AC-1 — at 230 V at 60 °C rated value 34 kW — at 400 V rated value 59 kW — at 690 V rated value 102 kW — at 690 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 37 kW — at 690 V rated value 45 kW — at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value • at 400 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 24 V rated value	90 A
• at AC-1 — at 230 V at 60 °C rated value — at 400 V rated value — at 690 V rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 110 V rated value	90 A
at 230 V at 60 °C rated value 59 kW at 400 V rated value 102 kW at 690 V rated value 102 kW at 690 V at 60 °C rated value 66 W at 1000 V at 60 °C rated value 30 kW at AC-2 at 400 V rated value 18.5 kW at 230 V rated value 30 kW at 230 V rated value 30 kW at 500 V rated value 37 kW at 690 V rated value 45 kW at 1000 V rated value 30 W at 1000 V rated value 30 W at 1000 V rated value 15.1 kW at 400 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 15.1 kW at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of	Operating power	
- at 400 V rated value 59 kW - at 690 V rated value 102 kW - at 690 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 - at 230 V rated value 30 kW - at 400 V rated value 30 kW - at 500 V rated value 30 kW - at 500 V rated value 37 kW - at 690 V rated value 45 kW - at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of	• at AC-1	
— at 690 V rated value — at 690 V at 60 °C rated value 102 kW — at 1000 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 30 kW — at 500 V rated value 37 kW — at 690 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of	— at 230 V at 60 °C rated value	34 kW
— at 690 V at 60 °C rated value 66 W — at 1000 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 30 kW — at 500 V rated value 37 kW — at 690 V rated value 45 kW — at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 400 V rated value	
— at 1000 V at 60 °C rated value 66 W • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 230 V rated value 18.5 kW — at 400 V rated value 30 kW — at 500 V rated value 45 kW — at 690 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 690 V rated value	102 kW
• at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 48.6 W	— at 690 V at 60 °C rated value	
at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value at 1000 V rated value 30 kW 45 kW at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 15.1 kW at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Fower loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 1000 V at 60 °C rated value	
- at 230 V rated value - at 400 V rated value 30 kW - at 500 V rated value 37 kW - at 690 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 18.5 kW 45 kW 45 kW 40 W 45 kW 46 M 46 M 46 W	• at AC-2 at 400 V rated value	30 kW
 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W 	• at AC-3	
- at 500 V rated value 37 kW - at 690 V rated value 45 kW - at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 230 V rated value	
- at 690 V rated value - at 1000 V rated value 30 W Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 15.1 kW • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 400 V rated value	30 kW
— at 1000 V rated value Operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value ■ at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 500 V rated value	
Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	— at 690 V rated value	
at AC-4 • at 400 V rated value • at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W		30 W
at 690 V rated value 18.6 kW Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W		
Thermal short-time current limited to 10 s 600 A Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	• at 400 V rated value	15.1 kW
Power loss [W] at AC-3 at 400 V for rated value of 4.6 W	• at 690 V rated value	18.6 kW
	Thermal short-time current limited to 10 s	600 A
p	Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	4.6 W

No-load switching frequency		
• at AC	5 000 1/h	
Operating frequency		
• at AC-1 maximum	1 000 1/h	
• at AC-2 maximum	400 1/h	
• at AC-3 maximum	1 000 1/h	
• at AC-4 maximum	300 1/h	

Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
● at 50 Hz rated value	200 V
● at 60 Hz rated value	200 220 V
Control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	232 V·A
Inductive power factor with closing power of the coil	0.55
Apparent holding power of magnet coil at AC	20 V·A
Inductive power factor with the holding power of the coil	0.28
Closing delay	
• at AC	16 57 ms
Opening delay	
• at AC	10 19 ms
Arcing time	10 15 ms

Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	0
Number of NO contacts for auxiliary contacts	
• instantaneous contact	0
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
Operating current at DC-12	
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A

Operating current at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	2 A
● at 110 V rated value	1 A
• at 220 V rated value	0.3 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	fuse gL/gG: 250 A
— with type of assignment 2 required	fuse gL/gG: 125 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A

Installation/ mounting/ dimensions	
Mounting type	screw and snap-on mounting onto 35 mm and 75 mm standard
	mounting rail
 Side-by-side mounting 	Yes
Height	146 mm
Width	70 mm
Depth	139 mm
Required spacing	
• for grounded parts	
— at the side	6 mm

Connections/Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (2.5 16 mm²)
— stranded	2x (10 50 mm²)
— single or multi-stranded	2x (2,5 16 mm²)
 finely stranded with core end processing 	2x (2.5 35 mm²)
 finely stranded without core end 	2x (10 35 mm²)
processing	
 at AWG conductors for main contacts 	2x (10 1/0)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination
Certificate



Test Certificates

Special Test Certificate

Miscellaneous

Type Test Certificates/Test Report



Marine / Shipping





Marine / Shipping

Miscellaneous

other

Confirmation



Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1044-1AN60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1044-1AN60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1044-1AN60

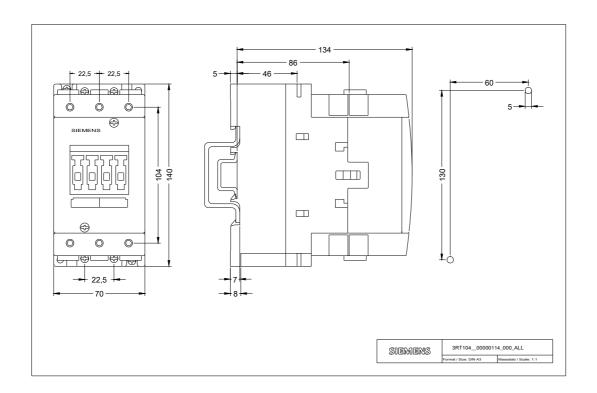
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1044-1AN60&lang=en

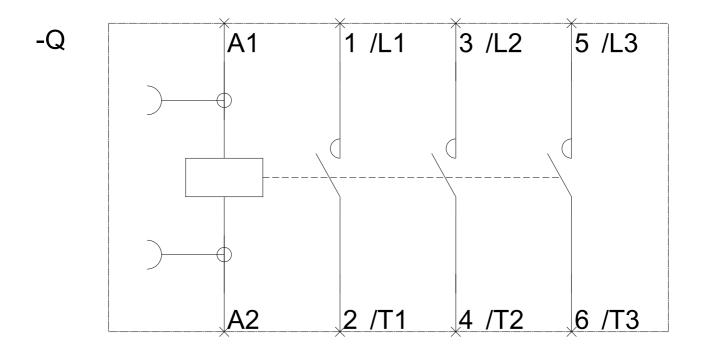
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1044-1AN60/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1044-1AN60&objecttype=14&gridview=view1





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