SIEMENS

Data sheet 3RT2017-1AV61

Power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 480 V AC, 60 Hz 3-pole, size S00 screw terminal



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S00
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20

of the terminal	IP20
Shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	30 000 000
 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
Equipment marking	
 acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 	K
• acc. to DIN EN 61346-2	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 poles for main current circuit Number of NO contacts for main contacts	3 3
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage	3
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum	
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current	3
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V	3 690 V
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current	3
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value	3 690 V
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C	3 690 V 22 A
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C	3 690 V 22 A 22 A
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value	3 690 V 22 A 22 A 20 A
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value	3 690 V 22 A 22 A 20 A
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3	3 690 V 22 A 22 A 20 A 12 A
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value	3 690 V 22 A 22 A 20 A 12 A
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value	3 690 V 22 A 22 A 20 A 12 A 12 A 9.2 A

e at 400 V rated value	• at 40 °C minimum permissible	4 mm²
• at 400 V rated value • at 690 V rated value Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 200 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 220 V rated value — at 440 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 4600 V rated value — at 400 V rated value — at 400 V rated value — at 410 V rated value — at 410 V rated value — at 110 V rated value — at 24 V rated value — at 20 V rated value — at 24 V rated value — at 20 V rated	Operating current for approx. 200000 operating cycles at AC-4	
• at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 240 V rated value — at 220 V rated value — at 4600 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 240 V rated value — at 110 V rated value — at 240 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 110 V rated value — at 110 V rated value — at 20 V rated value — at 20 V rated value — at 240 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 110 V rated value — at 24 V rated value — at 110 V rated value — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 20 A — at 24 V rated value — at 110 V rated value — at 20 A — at 220 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value — at		4.1 A
Operating current ■ at 1 current path at DC-1 — at 24 V rated value 20 A — at 110 V rated value 0.8 A — at 440 V rated value 0.6 A — at 400 V rated value 0.6 A — at 220 V rated value 0.6 A — at 400 V rated value 0.6 A ■ with 2 current paths in series at DC-1 — at 24 V rated value 12 A — at 110 V rated value 12 A — at 120 V rated value 1.6 A — at 440 V rated value 1.6 A — at 440 V rated value 0.7 A ■ with 3 current paths in series at DC-1 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 20 A — at 140 V rated value 20 A — at 440 V rated value 1.3 A — at 420 V rated value 1.3 A — at 440 V rated value 20 A — at 110 V rated value 1.4 A ■ with 2 current path in DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 24 V rated value 20 A — at 24 V rated value 20 A — at 24 V rated value 20 A — at 440 V rated value 20 A — at 400 V rated value 30 A — at 500 V rated value 30 A — at 500 V rated value 30 A — at 600 V rat		3.3 A
• at 1 current path at DC-1 — at 24 V rated value 2.1 A — at 110 V rated value 0.8 A — at 440 V rated value 0.6 A — at 600 V rated value 0.6 A — at 600 V rated value 0.6 A — at 220 V rated value 0.6 A • with 2 current paths in series at DC-1 — at 24 V rated value 12 A — at 110 V rated value 0.8 A — at 440 V rated value 12 A — at 220 V rated value 0.8 A — at 600 V rated value 0.7 A • with 3 current paths in series at DC-1 — at 24 V rated value 0.7 A • with 3 current paths in series at DC-1 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 1.3 A — at 600 V rated value 1.3 A — at 600 V rated value 1.4 A — at 440 V rated value 1.3 A — at 220 V rated value 1.3 A — at 24 V rated value 20 A — at 110 V rated value 20 A — at 140 V rated value 20 A — at 140 V rated value 20 A — at 140 V rated value 20 A — at 440 V rated value 20 A — at 440 V rated value 20 A — at 440 V rated value 20 A — at 24 V rated value 20 A — at 440 V rated value 20 A — at 24 V rated value 30 A — at 25 V rated value 30 A — at 26 V rated value 30 A — at 26 V rated v	Operating current	
- at 110 V rated value 2.1 A - at 220 V rated value 0.8 A - at 440 V rated value 0.6 A - at 600 V rated value 0.6 A • with 2 current paths in series at DC-1 - at 24 V rated value 12 A - at 110 V rated value 12 A - at 220 V rated value 12 A - at 220 V rated value 15 A - at 440 V rated value 16 A - at 440 V rated value 17 A • with 3 current paths in series at DC-1 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 20 A - at 220 V rated value 20 A - at 440 V rated value 13 A - at 600 V rated value 13 A - at 600 V rated value 20 A - at 110 V rated value 20 A - at 24 V rated value 20 A - at 110 V rated value 20 A - at 24 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 20 A - at 240 V rated value 20 A - at 240 V rated value 20 A - at 240 V rated value 20 A - at 440 V rated value 30 A - at 600 V rated value 30 A - at 600 V rated value 30 A	at 1 current path at DC-1	
	— at 24 V rated value	20 A
— at 440 V rated value — at 600 V rated value	— at 110 V rated value	2.1 A
 — at 600 V rated value ● with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 1200 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — with 3 current paths in series at DC-1 — at 24 V rated value — at 210 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 24 V rated value — at 20 A — at 110 V rated value — at 24 V rated value — at 24 V rated value — at 20 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 200 V rated value — at 600 V rated value<td>— at 220 V rated value</td><td>0.8 A</td>	— at 220 V rated value	0.8 A
with 2 current paths in series at DC-1 — at 24 V rated value	— at 440 V rated value	0.6 A
- at 24 V rated value 20 A - at 110 V rated value 12 A - at 220 V rated value 1.6 A - at 440 V rated value 0.8 A - at 600 V rated value 0.7 A • with 3 current paths in series at DC-1 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 20 A - at 220 V rated value 1.3 A - at 600 V rated value 1.3 A - at 600 V rated value 1.4 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 3.1 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 3.35 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 20 A - at 440 V rated value 3.5 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 600 V rated value 3.5 A • at 440 V rated value 3.5 A - at 440 V rated value 3.5 A • at 440 V rated value 3.5 A - at 440 V rated value 3.2 A - at 600 V rated value 3.2 A Operating power • at AC-1 - at 230 V rated value 7.5 kW	— at 600 V rated value	0.6 A
- at 110 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 24 V rated value - at 24 V rated value - at 220 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 110 V rated value - at 110 V rated value - at 24 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 110 V rated value - at 110 V rated value - at 24 V rated value - at 24 V rated value - at 24 V rated value - at 250 V rated value - at 250 V rated value - at 260 V rated value - at 27 V rated value - at 28 V rated value - at 29 V rated value - at 20 V rated value - at 600 V rated value - at 230 V rated value - at 330 V rated value - at 230 V rated value - at 330 V rated value - 3.5 KW	 with 2 current paths in series at DC-1 	
- at 220 V rated value - at 440 V rated value 0.8 A - at 600 V rated value 0.7 A • with 3 current paths in series at DC-1 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 20 A - at 440 V rated value 1.3 A - at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 0.1 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 25 V rated value 20 A - at 20 V rated value 20 A - at 440 V rated value 20 A - at 600 V rated value 20 A - at 600 V rated value 20 A - at 600 V rated value 7.5 kW	— at 24 V rated value	20 A
at 440 V rated value	— at 110 V rated value	12 A
 — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value — at 1 10 V rated value — at 600 V rated value — at 600 V rated value — at 1 10 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 20 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at AC-1 — at 230 V rated value 7.5 kW 	— at 220 V rated value	1.6 A
with 3 current paths in series at DC-1 — at 24 V rated value	— at 440 V rated value	0.8 A
at 24 V rated value 20 A at 110 V rated value 20 A at 220 V rated value 20 A at 440 V rated value 1.3 A at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 at 24 V rated value 20 A at 110 V rated value 0.1 A • with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 20 A at 110 V rated value 20 A at 110 V rated value 20 A at 110 V rated value 20 A at 24 V rated value 20 A at 220 V rated value 20 A at 440 V rated value 1.5 A at 440 V rated value 20 A at 600 V rated value 20 A at 600 V rated value 20 A at 600 V rated value 7.5 kW	— at 600 V rated value	0.7 A
- at 110 V rated value 20 A - at 220 V rated value 1.3 A - at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 110 V rated value 20 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 220 V rated value 20 A - at 440 V rated value 20 A - at 440 V rated value 20 A - at 4600 V rated value 0.2 A - at 600 V rated value 0.2 A - at 600 V rated value 7.5 kW	 with 3 current paths in series at DC-1 	
— at 220 V rated value 20 A — at 440 V rated value 1.3 A — at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 0.1 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 3.35 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 20 A — at 220 V rated value 20 A — at 440 V rated value 1.5 A — at 440 V rated value 0.2 A Operating power • at AC-1 — at 230 V rated value 7.5 kW	— at 24 V rated value	20 A
- at 440 V rated value 1.3 A - at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 0.1 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 0.35 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 24 V rated value 20 A - at 110 V rated value 20 A - at 410 V rated value 1.5 A - at 440 V rated value 0.2 A - at 4600 V rated value 0.2 A Operating power • at AC-1 - at 230 V rated value 7.5 kW	— at 110 V rated value	20 A
— at 600 V rated value 1 A Operating current • at 1 current path at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 0.1 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 0.35 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 20 A — at 440 V rated value 1.5 A — at 440 V rated value 0.2 A Operating power • at AC-1 — at 230 V rated value 7.5 kW	— at 220 V rated value	20 A
Operating current • at 1 current path at DC-3 at DC-5 — at 24 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 • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 24 V rated value — at 210 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at AC-1 — at 230 V rated value • at AC-1 — at 230 V rated value 7.5 kW	— at 440 V rated value	1.3 A
 at 1 current path at DC-3 at DC-5 — at 24 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 with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value at 24 V rated value at 20 A at 110 V rated value at 20 A at 110 V rated value at 110 V rated value at 20 A at 440 V rated value at 440 V rated value at 600 V rated value 0.2 A Operating power at AC-1 at 230 V rated value 7.5 kW 7.5 kW	— at 600 V rated value	1 A
 — at 24 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 — with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at AC-1 — at 230 V rated value 7.5 kW 	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 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 20 A at 110 V rated value at 220 V rated value at 240 V rated value at 440 V rated value at 600 V rated value 0.2 A at 600 V rated value 0.2 A 0.3 KW 	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 — at 110 V rated value 0.35 A with 3 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 — at 600 V rated value — at AC-1 — at 230 V rated value 7.5 kW 	— at 24 V rated value	20 A
 — at 24 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 220 V rated value — at 440 V rated value — at 600 V rated value Operating power ● at AC-1 — at 230 V rated value 7.5 kW 	— at 110 V rated value	0.1 A
 — 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 220 V rated value — at 440 V rated value — at 600 V rated value Operating power ● at AC-1 — at 230 V rated value 7.5 kW 	• 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 — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value Operating power at AC-1 — at 230 V rated value 7.5 kW 	— at 24 V rated value	20 A
— at 24 V rated value 20 A — at 110 V rated value 20 A — at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A Operating power • at AC-1 — at 230 V rated value 7.5 kW	— at 110 V rated value	0.35 A
 — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value Operating power • at AC-1 — at 230 V rated value 20 A 0.2 A 0.2 A 7.5 kW 	• with 3 current paths in series at DC-3 at DC-5	
— at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A Operating power	— at 24 V rated value	20 A
— at 440 V rated value 0.2 A — at 600 V rated value 0.2 A Operating power ● at AC-1 — at 230 V rated value 7.5 kW	— at 110 V rated value	20 A
— at 600 V rated value 0.2 A Operating power	— at 220 V rated value	1.5 A
Operating power ● at AC-1 — at 230 V rated value 7.5 kW	— at 440 V rated value	0.2 A
 at AC-1 — at 230 V rated value 7.5 kW 	— at 600 V rated value	0.2 A
— at 230 V rated value 7.5 kW	Operating power	
	• at AC-1	
— at 230 V at 60 °C rated value 7.5 kW	— at 230 V rated value	7.5 kW
	— at 230 V at 60 °C rated value	7.5 kW

— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-2 at 400 V rated value	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	2 kW
● at 690 V rated value	2.5 kW
Thermal short-time current limited to 10 s	90 A
Power loss [W] at AC-3 at 400 V for rated value of	1.2 W
the operating current per conductor	
No-load switching frequency	
• at AC	10 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 1/h
0	

Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
● at 60 Hz rated value	480 V
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
● at 60 Hz	43 V·A
Inductive power factor with closing power of the coil	
● at 60 Hz	0.8
Apparent holding power of magnet coil at AC	
● at 60 Hz	6.5 V·A
Inductive power factor with the holding power of the coil	
● at 60 Hz	0.25
Closing delay	
• at AC	8 33 ms

Opening delay	
• at AC	4 15 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	4 mA
• at DC at 24 V maximum permissible	10 mA

Auxiliary circuit	
Number of NO contacts	
● for auxiliary contacts	
instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
Operating 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)

11 A
11 A

— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 for three-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
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
 - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A

fuse gG: 10 A

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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
 Side-by-side mounting 	Yes
Height	58 mm
Width	45 mm
Depth	73 mm
Required spacing	
for grounded parts	
— at the side	6 mm
• for live 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• at AWG conductors for main contacts	2x (20 16), 2x (18 14), 2x 12

Connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes; with 3RH29
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	
Protection against electrical shock	finger-safe

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery







KC



Type Examination

Declaration of	of.
Conformity	

Test Certificates

Marine / Shipping



Type Test
Certificates/Test
Report

Special Test Certificate







GL

Marine / Shipping

Lloyd's Kegister









otherConfirmation

other



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=3RT2017-1AV61

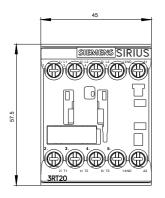
Cax online generator

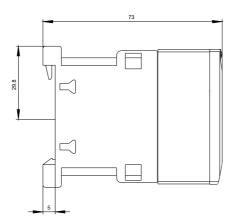
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AV61

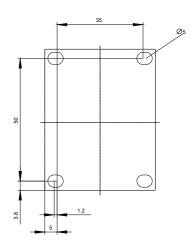
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

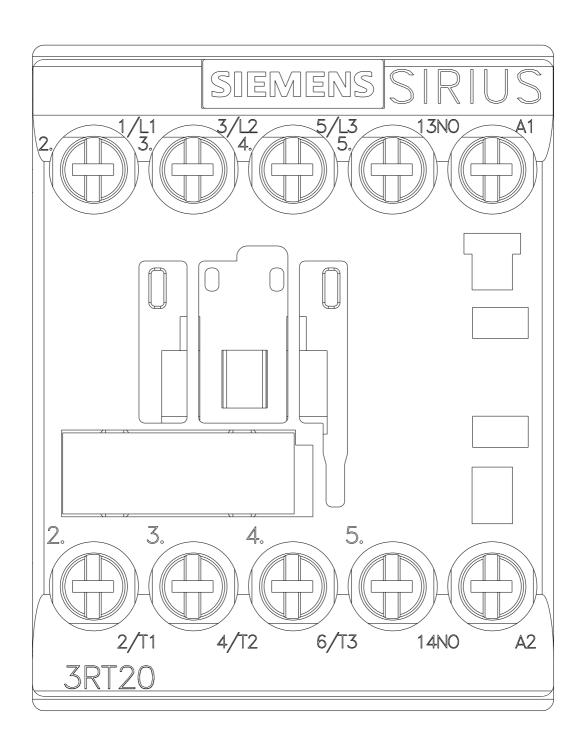
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AV61

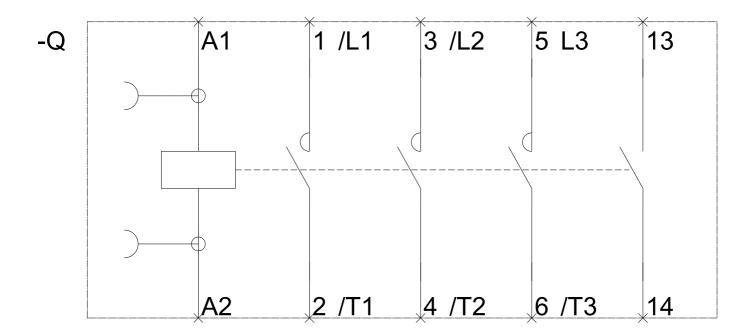
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1AV61&lang=en











last modified: 11/26/2017