SIEMENS

Data sheet 3RT2036-1AG64

power contactor, AC-3 50 A, 22 kW / 400 V 2 NO + 2 NC, 100 V AC, 50 Hz / 100-110 V, 60 Hz, 3-pole, Size S2, screw terminal



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

General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	12 W
 at AC in hot operating state per pole 	4 W
power loss [W] for rated value of the current without	18.5 W
load current share typical	
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit 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	IP00
shock resistance at rectangular impulse	
● at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
● at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
of the contactor with added auxiliary switch	10 000 000
block typical	0
reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
 installation altitude at height above sea level 	2 000 m
maximum	
ambient temperature	05
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
operating voltage	
at AC-3 rated value maximum	690 V
operating current	
• at AC-1 at 400 V	
 at ambient temperature 40 °C rated value 	70 A
● at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	70 A
	70 A 60 A
rated value — up to 690 V at ambient temperature 60 °C	
rated value — up to 690 V at ambient temperature 60 °C rated value	
rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3	60 A
rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value	60 A 51 A
rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value — at 500 V rated value	60 A 51 A 51 A
rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value	60 A 51 A 51 A 24 A
rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value • at AC-4 at 400 V rated value	60 A 51 A 51 A 24 A 41 A

 up to 230 V for current peak value n=20 rated value 	43.2 A
 up to 400 V for current peak value n=20 rated value 	43.2 A
 up to 500 V for current peak value n=20 rated value 	43.2 A
 up to 690 V for current peak value n=20 rated value 	24 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	28.8 A
up to 400 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
 up to 690 V for current peak value n=30 rated value 	24 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	25 mm²
operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 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	35 A
— at 440 V rated value 0.06 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 25 A — at 110 V rated value 55 A — at 110 V rated value 5 A — at 220 V rated value 0.27 A — at 600 V rated value 0.16 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 110 V rated value 55 A — at 140 V rated value 25 A — at 440 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 22 kW • at AC-2 at 400 V rated value 22 kW • at AC-3 at 400 V rated value 22 kW — at 500 V rated value 22 kW — at 500 V rated value 22 kW — at 500 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 22 kW operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value	— at 110 V rated value	2.5 A
■ at 600 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 120 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 24 V rated value ■ at 27 V rated value ■ at 28 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 120 V rated value ■ at 120 V rated value ■ at 120 V rated value ■ at 600 V rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=20 rated value □ up to 500 V for current peak value n=30 rated value □ up to 500 V for current peak value n=30 rated value □ up to 500 V for current peak value n=30 rated value □ u	— at 220 V rated value	1 A
with 2 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.1 A
- at 24 V rated value	— at 600 V rated value	0.06 A
- at 110 V rated value	• with 2 current paths in series at DC-3 at DC-5	
- at 220 V rated value	— at 24 V rated value	55 A
- at 440 V rated value	— at 110 V rated value	25 A
- at 600 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 220 V rated value - at 600 V rated value - at AC-2 at 400 V rated value • 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 500 V rated value - at 690 V rated valu	— at 220 V rated value	5 A
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 110 V rated value 25 A — at 220 V rated value 0.6 A — at 440 V rated value 0.35 A operating power • at AC-2 22 kW • at AC-3 — at 230 V rated value 22 kW • at AC-3 — at 230 V rated value 22 kW — at 400 V rated value 22 kW — at 400 V rated value 22 kW — at 500 V rated value 22 kW — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent output at AC-8a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 440 V rated value	0.27 A
- at 24 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A Operating power • at AC-2 22 kW • at AC-3 - at 230 V rated value 22 kW - at 400 V rated value 22 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 18.2 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 600 V rated value	0.16 A
- at 110 V rated value	• with 3 current paths in series at DC-3 at DC-5	
- at 220 V rated value	— at 24 V rated value	55 A
- at 440 V rated value	— at 110 V rated value	55 A
operating power • 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 690 V rated value • at 400 V rated value — at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 220 V rated value	25 A
operating power • at AC-2 at 400 V rated value • at AC-3	— at 440 V rated value	0.6 A
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 22 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 12.6 kW at 690 V rated value 12.6 kW at 690 V rated value 18.2 kW operating apparent output at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value operating apparent output at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 11.4 kV-A 19.9 kV-A	— at 600 V rated value	0.35 A
at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 12.6 kW at 690 V rated value 18.2 kW Operating apparent output at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value 11.4 kV·A 19.9 kV·A	operating power	
- at 230 V rated value - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 12.6 kW operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated	• at AC-2 at 400 V rated value	22 kW
- at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	• at AC-3	
- at 500 V rated value - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 230 V rated value	15 kW
— at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 400 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated	— at 500 V rated value	30 kW
at AC-4 • at 400 V rated value • at 690 V rated value 12.6 kW operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 690 V rated value	22 kW
 at 690 V rated value operating apparent output at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated up to 400 V for current peak value n=30 rated 19.9 kV·A 		
operating apparent output at AC-6a oup to 230 V for current peak value n=20 rated value oup to 400 V for current peak value n=20 rated value oup to 500 V for current peak value n=20 rated value oup to 690 V for current peak value n=20 rated value oup to 690 V for current peak value n=20 rated value operating apparent output at AC-6a oup to 230 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated 19.9 kV·A	● at 400 V rated value	12.6 kW
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated 11.4 kV·A 	● at 690 V rated value	18.2 kW
value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 19.9 kV·A	operating apparent output at AC-6a	
 value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent output at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated up to 400 V for current peak value n=30 rated 11.4 kV·A 	·	17.2 kV·A
value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 19.9 kV·A		29.9 kV·A
value operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 19.9 kV·A	·	37.4 kV·A
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated 11.4 kV·A 19.9 kV·A 		28.6 kV·A
value ■ up to 400 V for current peak value n=30 rated 19.9 kV·A	operating apparent output at AC-6a	
	·	11.4 kV·A
	·	19.9 kV·A

 up to 500 V for current peak value n=30 rated value 	24.9 kV·A
 up to 690 V for current peak value n=30 rated value 	28.6 kV·A
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	100 V
• at 60 Hz rated value	100 110 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1

Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz rated value	100 V
• at 60 Hz rated value	100 110 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	212 V·A
● at 60 Hz	188 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.69
● at 60 Hz	0.65
apparent holding power of magnet coil at AC	
● at 50 Hz	18.5 V·A
● at 60 Hz	16.5 V·A
inductive power factor with the holding power of the coil	

0.36
0.39
10 80 ms
10 18 ms
10 20 ms
Standard A1 - A2

Auxiliary circuit	
number of NC contacts for auxiliary contacts	
• instantaneous contact	2
number of NO contacts for auxiliary contacts	
• instantaneous contact	2
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
● 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	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
● at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings	
full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	52 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	

• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
• for three-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125

A (415 V, 80 kA)

gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A

(415V,80kA)

gG: 10 A (500 V, 1 kA)

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	114 mm
width	55 mm
depth	174 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm

— downwards	10 mm
— at the side	6 mm

Connections/ Terminals		
type of electrical connection		
• for main current circuit	screw-type terminals	
 for auxiliary and control current circuit 	screw-type terminals	
 at contactor for auxiliary contacts 	Screw-type terminals	
• of magnet coil	Screw-type terminals	
type of connectable conductor cross-sections		
• for main contacts		
 single or multi-stranded 	2x (1 35 mm²), 1x (1 50 mm²)	
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)	
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)	
connectable conductor cross-section for main		
contacts		
finely stranded with core end processing	1 35 mm²	
connectable conductor cross-section for auxiliary		
contacts	0.5 2.5 mm²	
• single or multi-stranded		
 finely stranded with core end processing 	0.5 2.5 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)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 type of connectable conductor cross-sections at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross		
section		
• for main contacts	18 1	
• for auxiliary contacts	20 14	

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	
• positively driven operation acc. to IEC 60947-5-	No	
1		

T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
suitability for use safety-related switching OFF	Yes

Certificates/ approvals

General Product Approval

EMC











Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Ship- ping
Type Examination Certificate	Miscellaneous EG-Konf.	Type Test Certificates/Test Report Special Test Certificate ficate	ABS

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=3RT2036-1AG64

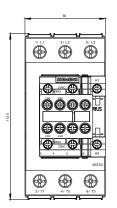
Cax online generator

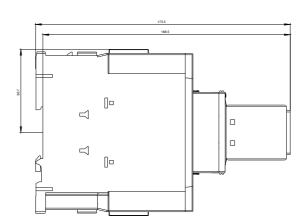
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AG64

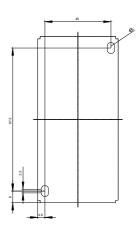
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AG64

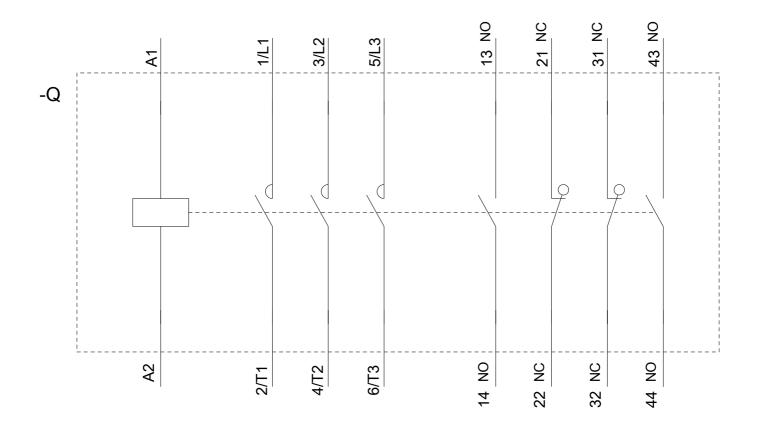
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1AG64&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AG64/char









last modified: 09/08/2020