SIEMENS

Data sheet 3RT2046-3AB00



power contactor, AC-3 95 A, 45 kW / 400 V 1 NO + 1 NC, 24 V AC, 50 Hz 3-pole, 3 NO, Size S3 Spring-type terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	19.8 W
• per pole	6.6 W
power loss [W] for rated value of the current without load current share typical	19 W
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.03.2017 00:00:00
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
operating voltage at AC-3 rated value maximum	1 000 V
operational current	

at AC-1 at 400 V at ambient temperature 40 °C rated value at AC 1	130 A
at AC-1 — up to 690 V at ambient temperature 40 °C	130 A
rated value — up to 690 V at ambient temperature 60 °C rated value	110 A
— up to 1000 V at ambient temperature 40 °C	70 A
rated value — up to 1000 V at ambient temperature 60 °C	60 A
rated value • at AC-3	
— at 400 V rated value	0F A
	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
 at AC-4 at 400 V rated value 	80 A
 at AC-5a up to 690 V rated value 	114 A
 at AC-5b up to 400 V rated value 	95 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	84.4 A
 up to 400 V for current peak value n=20 rated value 	84.4 A
 up to 500 V for current peak value n=20 rated value 	84.4 A
up to 690 V for current peak value n=20 rated valueat AC-6a	58 A
 up to 230 V for current peak value n=30 rated value 	56.3 A
 up to 400 V for current peak value n=30 rated value 	56.3 A
 up to 500 V for current peak value n=30 rated value 	56.3 A
up to 690 V for current peak value n=30 rated value	56.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	42 A
at 690 V rated value	30 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
·	100 A
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
operational current	
at 1 current path at DC-3 at DC-5	
at 1 cuitoni pani at DO-3 at DO-3 • at 1 cuitoni pani at DO-3 at DO-3 • at 1 cuitoni pani at DO-3 at DO-3	

		40.1
	— at 24 V rated value	40 A
	— at 110 V rated value	
■ 1800 V rated value		1 A
with 2 current paths in series at DC-3 at DC-5 = at 24 V rated value = at 110 V rated value = at 120 V rated value = at 120 V rated value = at 600 V rated value = at 600 V rated value = at 10 V rated value = at 120 V rated value = at 200 V rated value = at 600 V rated value	— at 440 V rated value	0.15 A
	— at 600 V rated value	0.06 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	100 A
	— at 110 V rated value	100 A
■ with 3 current paths in series at DC-3 at DC-5	 at 220 V rated value 	7 A
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.42 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	100 A
- at 440 V rated value - at 800 V rated value • at AC-2 at 400 V rated value • at AC-3 - at 230 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 1000 V rated	— at 110 V rated value	100 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 1000 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — operating apparent power at AC-8a — up to 200 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 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	35 A
operating power at AC-2 at 400 V rated value at AC-3 — 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 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 22 kW 27.4 kW operating apparent power 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 800 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 up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 42.4 kV-A 38 kV-A 48.7 kV-A 48.7 kV-A 49 kV-A 49 kV-A 49 kV-A 40 kV-A 4	— at 440 V rated value	0.8 A
at AC-2 at 400 V rated value at AC-3 at 3C-3 at 3C-3 at 3C-3 at 400 V rated value at 500 V rated value at 690 V rated value year 1000 V rated value at 690 V rated value be up to 400 V for current peak value n=20 rated value ap to 590 V for current peak value n=20 rated value ap to 590 V for current peak value n=20 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 590 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for current peak value n=30 rated value ap to 500 V for cur	— at 600 V rated value	0.35 A
at AC-3 at 230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 1000 V rated value at 22 kW at 1400 V rated value at 680 V rated value at 680 V 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 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 up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 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 30 kV-A 45 kV-A 45 kV-A 46 k-7 kV-A 47 kV-A 48 k-7 kV-A 47 kV-A 48 k-7 kV-A 49 k-7 kV-A 49 k-7 kV-A 40	operating power	
- at 230 V rated value - at 400 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 - 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 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 - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 40 °C - initied to 1 s switching at zero current maximum - limited to 5 s switching at zero current maximum - limited to 5 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 6	• at AC-2 at 400 V rated value	45 kW
- at 400 V rated value - at 509 V rated value - at 690 V rated value - at 1000 V rated value - at 690 V 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 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 400 V for current peak value n=30 rated value - up to 500 V for curr	• at AC-3	
- at 500 V rated value - at 1000 V rated value - at 1000 V rated value - 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 - up to 230 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 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 - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 40 °C - unimited to 10 s switching at zero current maximum - limited to 5 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 6	— at 230 V rated value	22 kW
- at 690 V rated value - at 1000 V rated value	— at 400 V rated value	45 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 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=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching	— at 500 V rated value	55 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 • 1 725 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use	— at 690 V rated value	75 kW
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=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value **TAC-4 maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum **Imited to 10 s switching at zero current maximum **Imited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum **Imited to 60 s switching at zero current maximum **Imited to 10 switching at zero current maximum *	— at 1000 V rated value	37 kW
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short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage • at 50 Hz rated value 1 725 A; Use minimum cross-section acc. to AC-1 rated value 1 297 A; Use minimum cross-section acc. to AC-1 rated value 946 A; Use minimum cross-section acc. to AC-1 rated value 486 A; Use minimum cross-section acc. to AC-1 rated value 610 A; Use minimum cross-section acc. to AC-1 rated value 610 A; Use minimum cross-section acc. to AC-1 rated value 610 A; Use minimum cross-section acc. to AC-1 rated value 610 A; Use minimum cross-section acc. to AC-1 rated value 75 000 1/h 900 1/h		
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at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz 0.8 1.1		7.0
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz 0.8 1.1		24 V
value of magnet coil at AC ● at 50 Hz 0.8 1.1		
apparent pick-up power of magnet coil at AC	• at 50 Hz	0.8 1.1
	apparent pick-up power of magnet coil at AC	

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• at 50 Hz	296 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.61
apparent holding power of magnet coil at AC	
● at 50 Hz	19 V·A
inductive power factor with the holding power of the	
coil	0.00
● at 50 Hz	0.38
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	40.4
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	risary officining por 100 million (17 V, 1 mirt)
full-load current (FLA) for 3-phase AC motor	06.4
at 480 V rated value at 600 V rated value	96 A
• at 600 V rated value	77 A
yielded mechanical performance [hp]	
• for single-phase AC motor	40 ha
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
• for 3-phase AC motor	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	75 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A
	(415 V, 80 kA)

- with type of assignment 2 required for short circuit protection of the auxiliary switch	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
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 60715
side-by-side mounting	Yes
height	140 mm
width	70 mm
depth	152 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	10 11111
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals Spring-type terminals
type of connectable conductor cross-sections	Spring-type terminals
for main contacts	
	2v /2 F 2F mm²\ 4v /2 F F0 mm²\
— finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
at AWG cables for main contacts connectable conductor cross-section for main contacts	2x (10 1/0), 1x (10 2)
contacts	2.5 46 mm²
• solid	2.5 16 mm ²
• stranded	6 70 mm²
finely stranded with core end processing	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm ²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16)
AWG number as coded connectable conductor cross section	ZA (20 10)
• for main contacts	10 2
for auxiliary contacts	10 2 20 14
	LV 17
Safety related data	Vac
product function mirror contact acc. to IEC 60947-4-1	Yes

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 positively driven operation acc. to IEC 60947-5-1	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Cartificates/approvals	

Certificates/ approvals

General Product Approval

EMC













Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping



LRS









Confirmation

other

Railway

Vibration and Shock

Further information

Information- and Download center (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-3AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-3AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3AB00

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

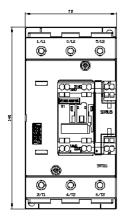
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-3AB00\&lang=endersearch.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-3AB00\&lang=endersearch.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx.quf} \\ \underline{\text{http://www.automation.siemen$

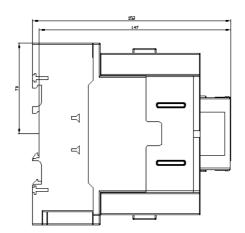
Characteristic: Tripping characteristics, I2t, Let-through current

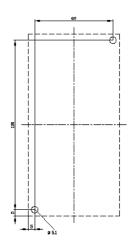
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3AB00/char

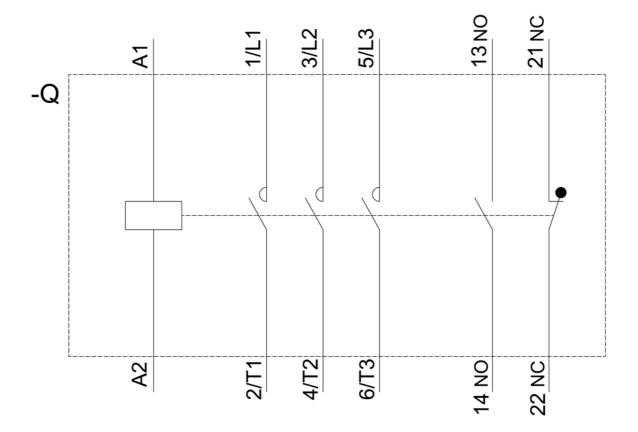
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3AB00&objecttype=14&gridview=view1









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