SIEMENS

Data sheet

3RT2046-1AQ20

power contactor, AC-3 95 A, 45 kW / 400 V 2 NO + 1 NC, 500 V AC, 50/60 Hz 3-pole, 3 NO, Size S3 screw 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		
 at AC in hot operating state per pole 	6.6 W		
power loss [W] for rated value of the current without load current share typical	25 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		

protection class IP	
• on the front	IP20
• of the terminal	IP00
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 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 	2 000 m
maximum	
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
operating current	
● at AC-1 at 400 V	
	130 A
• at AC-1 at 400 V	
• at AC-1 at 400 V — at ambient temperature 40 °C rated value	
 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 	130 A
 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 	130 A 130 A
 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 up to 1000 V at ambient temperature 40 °C 	130 A 130 A 110 A
 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 up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 60 °C 	130 A 130 A 110 A 70 A
 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 up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value 	130 A 130 A 110 A 70 A
 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 up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value at AC-3 	130 A 130 A 110 A 70 A 60 A
 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 up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 60 °C rated value at AC-3 at 400 V rated value 	130 A 130 A 110 A 70 A 60 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 value	58 A
● at AC-6a	
— 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
an anafin a summant fan annans 000000 an anafin a	
operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	42 A
cycles at AC-4at 400 V rated valueat 690 V rated value	42 A 30 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current	
 cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 	30 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value	30 A 100 A
cycles at AC-4 • 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	30 A 100 A 9 A
cycles at AC-4 • 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 220 V rated value	30 A 100 A 9 A 2 A
cycles at AC-4 • 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 220 V rated value — at 440 V rated value	30 A 100 A 9 A 2 A 0.6 A
cycles at AC-4 • 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 220 V rated value — at 440 V rated value — at 600 V rated value	30 A 100 A 9 A 2 A
cycles at AC-4 • 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 24 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1	30 A 100 A 9 A 2 A 0.6 A 0.4 A
 cycles at AC-4 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 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value 	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
cycles at AC-4 • 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 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value = at 110 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
cycles at AC-4 • 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 220 V rated value — at 440 V rated value — 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 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A
cycles at AC-4 • 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 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 100 A 10 A
cycles at AC-4 • 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 210 V rated value — at 220 V rated value — at 440 V rated value — 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 220 V rated value — at 220 V rated value — at 440 V rated value — at 220 V rated value — at 20 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A
 cycles at AC-4 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 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 20 V rated value 	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 10 A 10 A 1.8 A 1 A
cycles at AC-4 • 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 24 V rated value — at 220 V rated value — at 440 V rated value — 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 220 V rated value — at 220 V rated value — at 24 V rated value — at 20 V rated value — at 600 V rated value — at 240 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 100 A 10 A 10 A
cycles at AC-4 • 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 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 210 V rated value — at 220 V rated value — at 24 V rated value — at 240 V rated value — at 200 V rated value — at 200 V rated value — at 200 V rated value — at 600 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 10 A 10 A 1.8 A 1 A

— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 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	2.5 A
— at 220 V rated value	1 A
— 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
— at 220 V rated value	7 A
— 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 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	45 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	22 kW
at 690 V rated value	27.4 kW
operating apparent output at AC-6a	
 up to 230 V for current peak value n=20 rated value 	33 kV·A
 up to 400 V for current peak value n=20 rated value 	58 kV·A
 up to 500 V for current peak value n=20 rated value 	73 kV·A
 up to 690 V for current peak value n=20 rated value 	69 kV·A
operating apparent output at AC-6a	

 up to 230 V for current peak value n=30 rated value 	22.4 kV·A
 up to 400 V for current peak value n=30 rated value 	39 kV·A
 up to 500 V for current peak value n=30 rated value 	48.7 kV·A
 up to 690 V for current peak value n=30 rated value 	67.3 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 725 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 297 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	946 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	610 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	486 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	900 1/h
• at AC-2 maximum	350 1/h
• at AC-3 maximum	850 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	500 V
• at 60 Hz rated value	500 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	348 V·A
• at 60 Hz	296 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	

● at 50 Hz	25 V·A
• at 60 Hz	18 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.35
• at 60 Hz	0.41
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	
 instantaneous contact 	1
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	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	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

full-load current (FLA) for three-phase AC motor			
• at 480 V rated value	96 A		
• at 600 V rated value	77 A		
yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	10 hp		
— at 230 V rated value	20 hp		
 for three-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			
	A (415 V, 80 kA)		
• 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) gG: 10 A (500 V, 1 kA)		
	A (415 V, 80 kA)		
• for short-circuit protection of the auxiliary switch	A (415 V, 80 kA)		
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be		
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting		
• for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting		
• for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting 	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm		
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting – forwards 	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm		
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards 	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm		
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards 	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm		
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards at the side 	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm		
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards at the side for grounded parts 	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm		

— downwards	10 mm
 for live parts 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 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 	
 — finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
 at AWG conductors for main contacts 	2x (10 1/0), 1x (10 2)
connectable conductor cross-section for main	
contacts	
• solid	2.5 16 mm ²
• stranded	6 70 mm ²
finely stranded with core end processing	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
 single or multi-stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
 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 	10 2
 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- 1 	No
T1 value for proof test interval or service life acc. to IEC 61508	20 у
protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
suitability for use safety-related switching OFF	Yes

Certificates/ appr	rovals			
General Prod	luct Approval			EMC
	CSA	<u>KC</u>	EAC	RCM

Declaration of	f Conformity	Test Certificates	5	Marine / Shipp	ing
EG-Konf.	Miscellaneous	Type Test Certific- ates/Test Report	Special Test Certi- ficate	ABS	Llovd's kegister LRS
Marine / Ship	ping			other	Railway
SIESTA.	RIN	A REAL	RRPROVED PROS	Confirmation	Vibration and Shock



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=3RT2046-1AQ20

Cax online generator

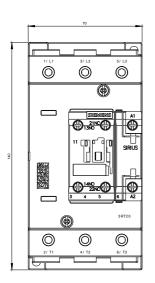
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AQ20

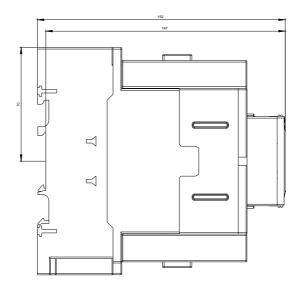
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AQ20

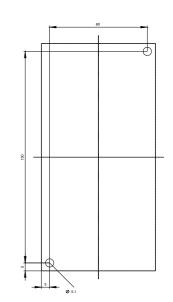
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AQ20&lang=en

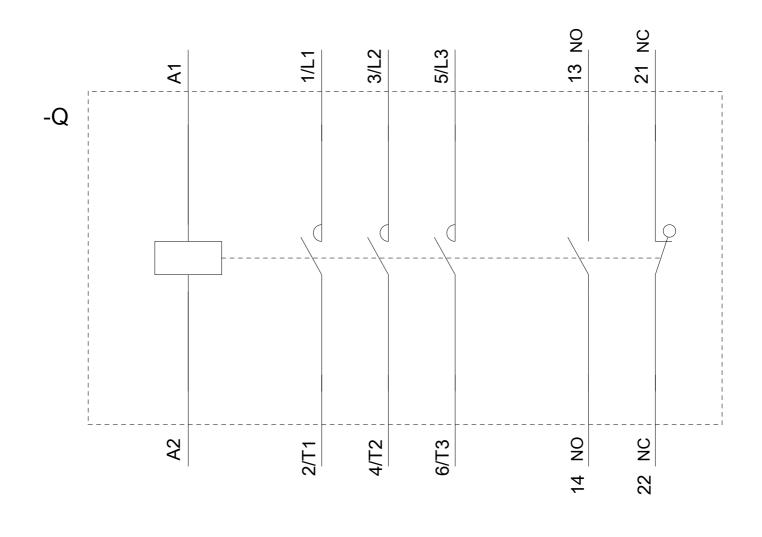
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AQ20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AQ20&objecttype=14&gridview=view1









last modified:

09/08/2020