SIEMENS

Data sheet

3RT2047-1AP00



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

4/0 4/11	
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 	23.7 W
 at AC in hot operating state per pole 	7.9 W
 without load current share typical 	7.3 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Weight	1.718 kg
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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	405 kg
global warming potential [CO2 eq] during manufacturing	7.66 kg
global warming potential [CO2 eq] during operation	399 kg
global warming potential [CO2 eq] after end of life	-1.19 kg
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
• at AC-3e 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
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C rated value	110 A
• at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-4 at 400 V rated value	97 A
at AC-5a up to 690 V rated value	120 A
 at AC-5b up to 400 V rated value at AC-6a	110 A
 — up to 230 V for current peak value n=20 rated value 	98 A
 — up to 400 V for current peak value n=20 rated value 	98 A
— up to 500 V for current peak value n=20 rated value	98 A
 — up to 690 V for current peak value n=20 rated value at AC-6a 	98 A
 — up to 230 V for current peak value n=30 rated value 	65.3 A
— up to 400 V for current peak value n=30 rated value	65.3 A
— up to 500 V for current peak value n=30 rated value	65.3 A
— up to 690 V for current peak value n=30 rated value	65.3 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	46 A
at 690 V rated value	36 A
operational current	
at 1 current path at DC-1	400 A
— at 24 V rated value — at 60 V rated value	100 A 60 A
— at 50 V rated value — at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	2 A 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 — at 60 V rated value	100 A 100 A
— at 24 V rated value — at 60 V rated value — at 110 V rated value	100 A 100 A 100 A

— at 440 V rated value	1.8 A
— at 600 V rated value	1.8 A 1 A
with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 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
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 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 60 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 60 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	55 kW
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
• at AC-3e	00.144
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW 90 kW
— at 690 V rated value	37 kW
- at 1000 V rated value operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	24.3 kW
• at 690 V rated value	32.9 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	39 kVA
 up to 400 V for current peak value n=20 rated value 	67 kVA
 up to 500 V for current peak value n=20 rated value 	84 kVA
 up to 690 V for current peak value n=20 rated value 	117 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	26 kVA
 up to 400 V for current peak value n=30 rated value 	45.2 kVA
 up to 500 V for current peak value n=30 rated value 	56.5 kVA
 up to 690 V for current peak value n=30 rated value 	78 kVA
short-time withstand current in cold operating state up to 40 °C	
• limited to 1 s switching at zero current maximum	1 960 A; Use minimum cross-section acc. to AC-1 rated value

 limited to 5 s switching at zero current maximum 	1 502 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	1 095 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	707 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	562 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-3e maximum	850 1/h			
• at AC-4 maximum	200 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz rated value	230 V			
operating range factor control supply voltage rated 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	296 VA			
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 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.38			
closing delay	40 50			
• at AC	13 50 ms			
opening delay				
• at AC	10 21 ms 10 20 ms			
araing time				
arcing time				
control version of the switch operating mechanism	Standard A1 - A2			
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2			
control version of the switch operating mechanism				
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	Standard A1 - A2			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	Standard A1 - A2 1 1			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	Standard A1 - A2 1			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	Standard A1 - A2 1 1 1 10 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	Standard A1 - A2 1 1 10 A 6 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	Standard A1 - A2 1 1 1 10 A 6 A 3 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value	Standard A1 - A2 1 1 1 6 A 3 A 2 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value	Standard A1 - A2 1 1 1 10 A 6 A 3 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value	Standard A1 - A2 1 1 1 6 A 3 A 2 A 1 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	Standard A1 - A2			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 424 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	Standard A1 - A2			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value	Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 3 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • 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 48 V rated value • at 48 V rated value • at 4110 V rated value • at 125 V rated value	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 2 A 1 A 2 A 2 A 2 A 2 A 3 A 2 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 2 A 1 A 2 A 2 A 2 A 2 A 3 A 2 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 100 V rated value • at 60 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 0 A 6 A 0 A 6 A 1 A 0 A 6 A 6 A 1 A 0 A 6 A 3 A 2 A 1 A 0.15 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 220 V rated value • at 60 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value	Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 0.15 A 10 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • 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 600 V rated value • at 24 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated valu	Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 10 A 2 A 10 A 2 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • 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 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 48 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 1 A 10 A 2 A 1 A 0 A 2 A 10 A 2 A 10 A 2 A 10 A 2 A 2 A 2 A 2 A 2 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 60 V rated value <t< td=""><td>Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A</td></t<>	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 60 V rated value • at 220 V rated value • at 48 V rated value • at 220 V rated value • at 48 V rated value • at 60 V rated value • at 48 V rated value • at 60 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 600 V rated value • at 10 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated val	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 1 A 10 A 6 A 6 A 6 A 1 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.9 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 60 V rated value • at 220 V rated value • at 600 V rated value • at 100 V rated value • at 220 V rated value • at 110 V rated value • at 125 V rate	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A			
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 60 V rated value • at 220 V rated value • at 48 V rated value • at 220 V rated value • at 48 V rated value • at 60 V rated value • at 48 V rated value • at 60 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 600 V rated value • at 10 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated val	Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 7 A 10 A 2 A 1 A 0.15 A			

UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	96 A
at 600 V rated value	99 A
yielded mechanical performance [hp]	0077
• for single-phase AC motor	
- at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
• for 3-phase AC motor	20 mp
- at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
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	gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)
 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 side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
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	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	JP
for main contacts	
	2x (2.5 35 mm²). 1x (2.5 50 mm²)
- finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2)
finely stranded with core end processingfor AWG cables for main contacts	2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2)
 finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts 	2x (10 1/0), 1x (10 2)
finely stranded with core end processing o for AWG cables for main contacts connectable conductor cross-section for main contacts o solid	2x (10 1/0), 1x (10 2) 2.5 16 mm ²
 finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts 	2x (10 1/0), 1x (10 2)

connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing	0.5 2.5 mm ²		
type of connectable conductor cross-sections	0.0 2.0 mm		
for auxiliary contacts			
-	$2x(0.5 + 1.5 mm^2) 2x(0.75$	$2 E mm^2$	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 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) 2x (20 16), 2x (18 14)		
 for AWG cables 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			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 positively driven operation according to IEC 60947-5-1 	No		
suitable for safety function	Yes		
suitability for use safety-related switching OFF	Yes		
service life maximum	20 a		
test wear-related service life necessary	Yes		
proportion of dangerous failures			
 with low demand rate according to SN 31920 	40 %		
 with high demand rate according to SN 31920 	73 %		
B10 value with high demand rate according to SN 31920	1 000 000		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
ISO 13849			
device type according to ISO 13849-1	3		
overdimensioning according to ISO 13849-2 necessary	Yes		
IEC 61508			
safety device type according to IEC 61508-2	Туре А		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP20		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		from the front	
touch protection on the front according to IEC 60529	IP20 finger-safe, for vertical contact	from the front	
touch protection on the front according to IEC 60529		from the front	
touch protection on the front according to IEC 60529		from the front	
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	finger-safe, for vertical contact	from the front	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	finger-safe, for vertical contact	from the front	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	finger-safe, for vertical contact	from the front	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	finger-safe, for vertical contact	from the front	KC
touch protection on the front according to IEC 60529 pprovals Certificates General Product Approval CCC EG-Konf.	finger-safe, for vertical contact	U L	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	finger-safe, for vertical contact	from the front	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Approval General Product Approval EMV Test Certification	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	U L	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Approval General Product Approval EMV Test Certification	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	U L	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Approval General Product Approval EMV Test Certificates	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	U L	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Approval General Product Approval EMV Test Certification	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	U L	KC
touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Approval General Product Approval EMV Test Certification	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	U L	KC
touch protection on the front according to IEC 60529 pprovals Certificates General Product Approval Ccc General Product Approval EMV Test Certificates Type Test Cates ates/Test R	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	Marine / Shipping	
touch protection on the front according to IEC 60529 approvals Certificates General Product Approval General Product Approval General Product Approval EMV Test Certification	finger-safe, for vertical contact Confirmation ates ertific- Special Test Certific-	U L	KC
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Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2047-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AP00

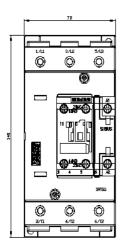
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

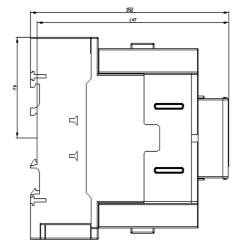
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=en

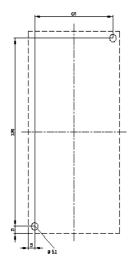
Characteristic: Tripping characteristics, I²t, Let-through current

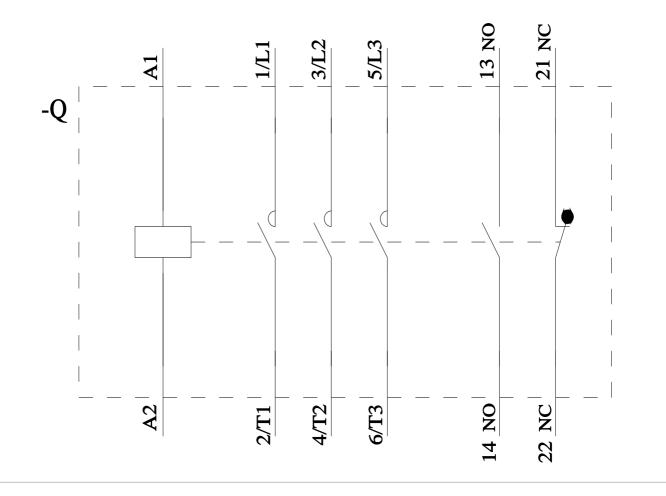
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AP00/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AP00&objecttype=14&gridview=view1









last modified:

1/24/2025 🖸