SIEMENS

Data sheet 3RT2027-1AP00



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	6.3 W
 at AC in hot operating state per pole 	2.3 W
 without load current share typical 	2.5 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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)	10/01/2009
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	74.2 kg
Global Warming Potential [CO2 eq] during manufacturing	1.9 kg
Global Warming Potential [CO2 eq] during operation	72.4 kg
global warming potential [CO2 eq] after end of life	-0.117 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 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	42 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-4 at 400 V rated value	22 A
at AC-5a up to 690 V rated value	44 A
• at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	00.0 A
— up to 230 V for current peak value n=20 rated value	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A 27 A
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	21 A
at AC-6a	ZIA
— up to 230 V for current peak value n=30 rated value	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 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	05.4
— at 24 V rated value	35 A

— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	6 kW
at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	12.2 kVA
• up to 400 V for current peak value n=20 rated value	21.3 kVA
• up to 500 V for current peak value n=20 rated value	23.3 kVA
• up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	15.5 kVA
• up to 690 V for current peak value n=30 rated value	21.5 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	341 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value
limited to 00 a suitable of the common transfer	·
Iimited to 60 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
_	
no-load switching frequency	162 A; Use minimum cross-section acc. to AC-1 rated value

** AF-C2 maximum 750 th** ** AF-C3 maximum 750 th** ** AF-C4 maximum 7	1400	750.41
## AR-G-9 maximum	• at AC-2 maximum	750 1/h
Control circuit Control Type of voltage of the control supply voltage operating range factor control supply voltage rated value of magnet coil at AC * at 50 Hz * apparent pick-up power of magnet coil at AC * at 50 Hz * apparent pick-up power of magnet coil at AC * at 50 Hz * apparent holding power of the coil * at 50 Hz * apparent holding power of magnet coil at AC * at 50 Hz * apparent holding power of magnet coil at AC * at 50 Hz * apparent holding power of magnet coil at AC * at 50 Hz * at 50 Hz * at 50 Hz * at 50 Hz * at 50 Hz * at 60 Hz *		
type of voltage of the control supply voltage operating range factor control supply voltage rated value of eact of 12 apparent pick-up power of magnet coil at AC at 00 Hz apparent pick-up power of magnet coil at AC at 00 Hz at 0		250 1/h
operating range factor control supply voltage rated value of magnet coil at AC aparent plok-up power of magnet coil at AC aparent holding power factor with the holding power of the coil aparent holding power of magnet coil at AC aparent holding power of the coil aparent holding power of magnet coil at AC aparent holding power of the coil aparent holding power of the coil aparent holding power of the coil aparent holding power factor with the holding power of the coil aparent accordance aparent holding power of the coil aparent holding power of the coil aparent holding power of the coil aparent holding power factor with the holding power of the coil aparent holding power factor with the holding power of the coil aparent holding power factor with the holding power of the coil aparent holding power factor with the holding power of the coil aparent holding power factor with the holdi		10
magnet coil at AC apparent plok-up power of magnet coil at AC a 10 0 1t2 Inductive power factor with closing power of the coil a 10 0 1t2 a paparent holding power of magnet coil at AC a 10 0 1t2 a 10 0 1t2 a 10 0 1t2 a 10 0 1t2 b 10 0 1t2 closing delay a 10 0 1t2 closing delay a 14 AC a 10 0 1t2 a 10 0 1t2 closing delay a 14 AC a 10 0 1t2 a 10 0 1t2 b 10 0 1t0 a 10		AC
### ### ##############################	-	0.8 1.1
### ### ##############################	apparent pick-up power of magnet coil at AC	
■ at 50 Hz apparent holding power of magnet coil at AC ■ at 50 Hz inductive power factor with the holding power of the coil ■ at 50 Hz		77 VA
apparent holding power of magnet coil at AC in tid of the power factor with the holding power of the coil at 50 Hz closing delay at AC arcing time at AC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary screet number of INC contacts for auxiliary contacts instantaneous control version of the switch operating mechanism Auxiliary screet number of INC contacts for auxiliary contacts instantaneous control version at AC-12 maximum 10 A operational current at AC-15 at 230 V rated value at 500 V rated value at 600 V rated value at 100 V rated value at 100 V rated value at 110 V rated value at 110 V rated value at 1220 V rated value at 200 V rated value at 400 V rated value at 500	inductive power factor with closing power of the coil	
a at 50 Hz	● at 50 Hz	0.82
a st 50 Hz 0.25	apparent holding power of magnet coil at AC	
• at 50 Hz closing delay • at AC spenning delay • at AC arcing time arcing time control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxillary contacts instantaneous contact contact number of NC contacts for auxillary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at DC-12 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 129 V rated value • at 120 V rated value	• at 50 Hz	9.8 VA
at AC 8 40 ms opening delay at AC 4 16 ms at AC 4 16 ms at AC 5 10 ms at Auxillary circuit auxillary circuit auxillary circuit auxillary circuit auxillary contacts for auxillary contacts instantaneous contact 1 auxillary circuit auxillary contacts instantaneous auxillary contacts for auxillary contacts instantaneous auxillary contacts for auxillary contacts instantaneous auxillary cartely value	inductive power factor with the holding power of the coil	
• at AC opening delay • at AC 4 16 ms arcing time control version of the switch operating mechanism Standard A1 - A2 Auxillary circuit number of NC contacts for auxillary contacts instantaneous contact contact number of NC contacts for auxillary contacts instantaneous contact operational current at AC-12 maximum 10 A • at 400 V rated value • at 400 V rated valu	● at 50 Hz	0.25
e at AC	closing delay	
* at AC		8 40 ms
arcing time		
Control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous 1		
number of NC contacts for auxillary contacts instantaneous contact number of NO contacts for auxillary contacts instantaneous contact number of NO contacts for auxillary contacts instantaneous 1		Standard A1 - A2
Description Contacts for auxiliary contacts instantaneous Contact		
Operational current at AC-12 maximum 10 A	contact	
operational current at AC-15	contact	
	·	10 A
	•	
■ at 690 V rated value Operational current at DC-12 ■ at 24 V rated value ■ at 48 V rated value ■ at 60 V rated value ■ at 10 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 80 V rated value ■ at 24 V rated value ■ at 25 V rated value ■ at 25 V rated value ■ at 600 V rated value ■ at 600 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 110 V rated value ■ at 110 V rated value □ at 125 V rated value □ at 125 V rated value □ at 120 V rated value □ at 120 V rated value □ at 220 V rated value □ at 220 V rated value □ at 480 V rated value □ 3 A □ at 600 V rated value □ 15 A □ 17 A Contact reliability of auxiliary contacts ULICSA ratings full-load current (FLA) for 3-phase AC motor □ at 480 V rated value □ at 600 V rated value □ at 600 V rated value □ at 27 A yielded mechanical performance [tp] ● for single-phase AC motor □ at 110/120 V rated value □ at 230 V rated value □ at 230 V rated value □ at 230 V rated value □ 5 hp ● for 3-phase AC motor		
Operational current at DC-12		
• at 24 V rated value • at 48 V rated value • at 80 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 200 V rated value • at 80 V rated value • at 80 V rated value • at 600 V rated value • at 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • at 230 V rated value • at 230 V rated value • 5 hp		I A
 at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 7 A 		10.0
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 800 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 80 V rated value at 80 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 2 hp at 230 V rated value by 6 hp 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value ontage of the first of th		
 at 125 V rated value 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 at 80 V rated value at 60 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 7 A at 600 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 20 V rated value<!--</td--><td></td><td></td>		
 at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 80 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 3 A at 600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 30 V rated value at 30 V rated value at 20 V rated value at 30 V rated value at 40 V rated value <		
• 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 1 A • at 110 V rated value 1 A • at 125 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 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor		
operational current at DC-13		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 7 A st 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 2 hp at 230 V rated value for 3-phase AC motor 		
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at at 250 V rated value at 600 V rated value at 300 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 2 hp at 230 V rated value b for 3-phase AC motor for 3-phase AC motor 	•	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 2 hp at 230 V rated value at 7 hp for 3-phase AC motor 	• at 48 V rated value	2 A
at 125 V rated value at 220 V rated value 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 3-phase AC motor at 480 V rated value 27 A at 600 V rated value 27 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 2 hp - at 230 V rated value 5 hp for 3-phase AC motor	• at 60 V rated value	2 A
 at 220 V rated value 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 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor for 3-phase AC motor 	• at 110 V rated value	1A
 at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 27 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 2 hp at 230 V rated value 5 hp for 3-phase AC motor 	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	• at 220 V rated value	0.3 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor 2 hp — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value 27 A yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor 	UL/CSA ratings	
• at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor • for 3-phase AC motor	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor	• at 480 V rated value	27 A
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 5 hp for 3-phase AC motor 	at 600 V rated value	27 A
 — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor 		
— at 230 V rated value 5 hp • for 3-phase AC motor		
• for 3-phase AC motor		
		5 hp
— at 200/208 V rated value 10 hp	·	
	— at 200/208 V rated value	10 hp

at 220/220 \ / ratad value	10 hp
— at 220/230 V rated value— at 460/480 V rated value	10 hp
	20 hp
— at 575/600 V rated value	25 hp A600 / P600
contact rating of auxiliary contacts according to UL Short-circuit protection	A0007 P000
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	go. 1077 (000 V, 110 V)
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 DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting forwards	10 mm
— forwards	10 mm
— upwards — downwards	10 mm
— downwards — at the side	0 mm
for grounded parts	Offilia
— 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 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	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
for AWG cables for main contacts	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary contacts	0.5 2.52
solid or stranded finely stranded with core and processing	0.5 2.5 mm ²
finely stranded with core end processing type of connectable conductor cross-sections	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts— solid or stranded	2v (0.5
— solid of stranded — finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
Interly stranded with core end processing for AWG cables for auxiliary contacts	2x (0.5 1.5 Hilli-), 2x (0.75 2.5 Hilli-) 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	(10), 2x (10 11)
section	
• for main contacts	16 8

• for auxiliary contacts	20 14
Safety related data	
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
B10 value with high demand rate according to SN 31920	450 000
suitability for use safety-related switching OFF	Yes
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

General Product Approval



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping













other Railway **Environment**

Household and similar appliances

Confirmation

Confirmation

Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2027-1AP00

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2027-1AP00}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AP00

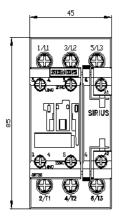
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

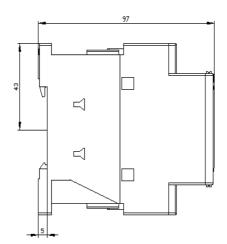
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AP00&lang=en

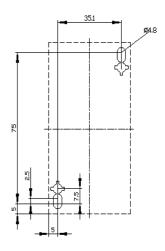
Characteristic: Tripping characteristics, I²t, Let-through current

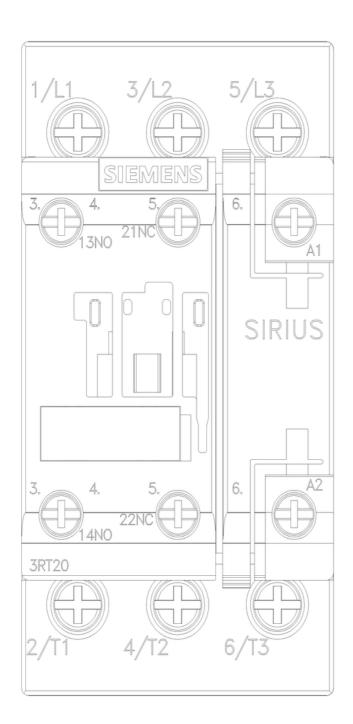
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AP00/char

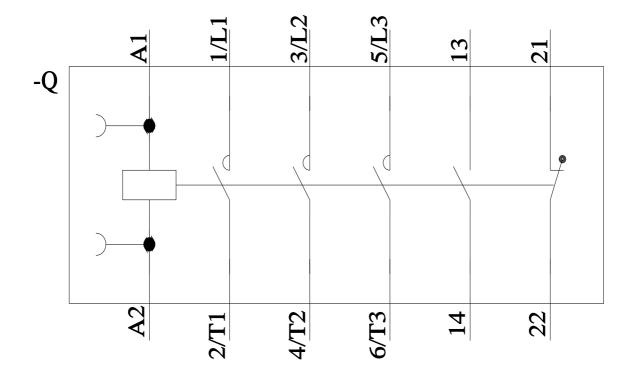
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AP00&objecttype=14&gridview=view1











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