SIEMENS

Data sheet

3RT2027-1AM20-1AA0



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 208 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0, upright mounting position

6/13				
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 	2.7 W			
type of calculation of power loss depending on pole	quadratic			
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)				
Weight	0.417 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	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 	50 A			
value — up to 690 V at ambient temperature 60 °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				
— 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			
— up to 500 V for current peak value n=20 rated value	27 A			
— up to 690 V for current peak value n=20 rated value	21 A			
• at AC-6a				
— 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 mm ²			
operational current for approx. 200000 operating cycles at AC-4	10.4			
at 400 V rated value	12 A 12 A			
• at 690 V rated value operational current	14 0			
at 1 current path at DC-1				
- at 24 V rated value	35 A			
— at 60 V rated value	20 A			
— at 100 V rated value	4.5 A			
— at 220 V rated value	1A			
— 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-2 at 400 V rated value	15 kW				
• 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-					
• 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 withstand current in cold operating state up to					
40 °C	400 At Lloo minimum groop gostien and to AO 4 statuture				
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero surrent 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				
Imited 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 limited to 50 s switching at zero surrent maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 60 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					

• at AC	5 000 1/h				
operating frequency					
● at AC-1 maximum	1 000 1/h				
• at AC-2 maximum	750 1/h				
• at AC-3 maximum	750 1/h				
• at AC-3e maximum	750 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	208 V				
• at 60 Hz rated value	208 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	81 VA				
• at 60 Hz	79 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.72				
• at 60 Hz	0.74				
apparent holding power of magnet coil at AC					
• at 50 Hz	10.5 VA				
• at 60 Hz	8.5 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.25				
• at 60 Hz	0.28				
closing delay					
• at AC	8 40 ms				
opening delay					
• at AC	4 16 ms				
at AC arcing time	4 16 ms 10 10 ms				
arcing time	10 10 ms				
arcing time control version of the switch operating mechanism	10 10 ms				
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	10 10 ms Standard A1 - A2				
arcing time 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	10 10 ms Standard A1 - A2 1				
arcing time 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	10 10 ms Standard A1 - A2 1 1				
arcing time 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	10 10 ms Standard A1 - A2 1 1				
arcing time 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	10 10 ms Standard A1 - A2 1 1 10 A				
arcing time 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	10 10 ms Standard A1 - A2 1 1 10 A 10 A				
arcing time 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	10 10 ms Standard A1 - A2 1 1 10 A 10 A 3 A				
arcing time 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	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A				
arcing time 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	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A				
arcing time 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	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A				
arcing time 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	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A				
arcing time 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 24 V rated value • at 48 V rated value	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A				
arcing time 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 24 V rated value • at 48 V rated value • at 60 V rated value	10 10 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A				
arcing time 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 • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 400 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A				
arcing time 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 • 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 48 V rated value • at 110 V rated value • at 125 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A				
arcing time 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 • at 400 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 10 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
arcing time 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 400 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 48 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 600 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
arcing time 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 24 V rated value • at 400 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 20 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 20 V rated value • at 20 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A				
arcing time 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 • at 690 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 • at 220 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1				
arcing time 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 400 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 220 V rated value • at 24 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 24 V rated value • at 48 V rated value • at 24 V rated value	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1				
arcing time 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 400 V rated value • at 690 V rated value • at 400 V rated value • at 230 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value <td>10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 1 A 10 A 2 A 1 A 10 A 10</td>	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 1 A 10 A 2 A 1 A 10				
arcing time 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 40 V rated value • at 24 V rated value • at 60 V rated value • at 220 V rated value • at 48 V rated value • at 400 V rated value <td>10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1</td>	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1				
arcing time 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 400 V rated value • at 230 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 600 V rated value<	10 10 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1				

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 200/208 V rated value	10 hp			
— at 220/230 V rated value	10 hp			
— at 460/480 V rated value	20 hp			
— at 575/600 V rated value	25 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: 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				
mounting position	standing, on horizontal mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	85 mm			
width	45 mm			
depth	97 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
for live parts				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control 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 mm ²), 2x (2.5 10 mm ²)			
— 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 mm ²			
• stranded	1 10 mm ²			
finely stranded with core end processing	1 10 mm²			
connectable conductor cross-section for auxiliary contacts				

 solid or stranded 		0.5	2.5 mm ²			
 finely stranded with core end processing 			2.5 mm ²			
type of connectable conductor cross-section	s	0.0				
for auxiliary contacts	0					
— solid or stranded		2x (0 !	5 1.5 mm²), 2x (0.75	2.5 mm²)		
— finely stranded with core end proces	sina		5 1.5 mm²), 2x (0.75 5 1.5 mm²), 2x (0.75			
 for AWG cables for auxiliary contacts 	Sing		0 16), 2x (18 14)	. 2.0 mm /		
AWG number as coded connectable conduct	or cross	27 (20	· 10), 2X (10 14)			
section	01 01033					
 for main contacts 		16 8	8			
 for auxiliary contacts 		20 14				
Safety related data						
product function						
 mirror contact according to IEC 60947-4-1 		Yes				
 positively driven operation according to IE 	C 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 319	920	40 %				
 with high demand rate according to SN 31 		73 %				
B10 value with high demand rate according t		1 000	000			
failure rate [FIT] with low demand rate accord 31920		100 FIT				
ISO 13849						
device type according to ISO 13849-1		3				
overdimensioning according to ISO 13849-2	necessary	Yes				
IEC 61508	lecessary	103				
		Type	Δ			
safety device type according to IEC 61508-2 Electrical Safety		Туре А				
protection class IP on the front according to	IEC 60529	IP20				
touch protection on the front according to E		finger-safe, for vertical contact from the front				
Approvals Certificates	0 00025	Inger	tinger-safe, for vertical contact from the front			
General Product Approval		_				
General Product Approval						
	CE EG-Konf.		<u>Confirmation</u>		KC	
General Product Approval EMV	Functional Saft	tey	Test Certificates		Marine / Shipping	
	<u>Type Examination</u> <u>tificate</u>	<u>n Cer-</u>	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping				other		
BUREAU VERITAS	RINA		RMRS	<u>Miscellaneous</u>	<u>Confirmation</u>	
Railway Environment						



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=3RT2027-1AM20-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AM20-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AM20-1AA0

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

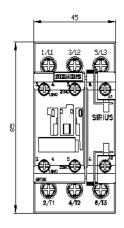
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AM20-1AA0&lang=en

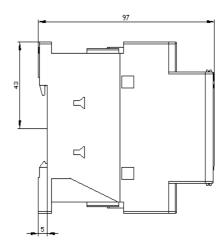
Characteristic: Tripping characteristics, I²t, Let-through current

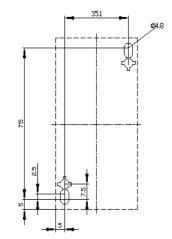
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AM20-1AA0/char

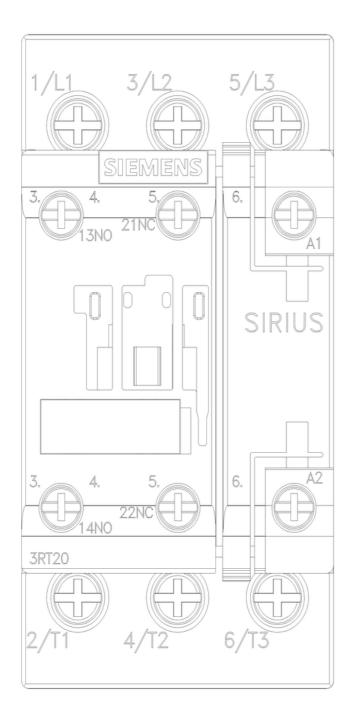
Further characteristics (e.g. electrical endurance, switching frequency)

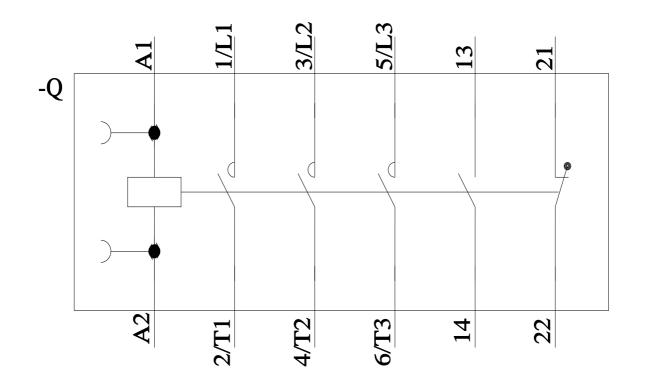
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AM20-1AA0&objecttype=14&gridview=view1











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