SIEMENS

Data sheet

3RT2027-1AP00



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz 3-pole, size S0 screw terminals

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	8.1 W		
• per pole	2.7 W		
power loss [W] for rated value of the current without load current share typical	9.8 W		
surge voltage resistance			
 of main circuit rated value 	6 kV		
 of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching cycles)			
 of contactor typical 	10 000 000		
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
reference code acc. to IEC 81346-2	Q		
Substance Prohibitance (Date)	01.10.2009 00:00:00		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-25 +60 °C		
 during storage 	-55 +80 °C		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage at AC-3 rated value maximum	690 V		

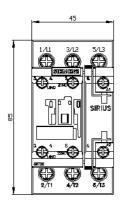
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	50 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
● at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
 at AC-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 at AC-6a 	21 A
at AC-ba — up to 230 V for current peak value n=30 rated	20.5 A
value	20.5 A
— up to 400 V for current peak value n=30 rated value value — up to 500 V for current peak value n=30 rated	18 A
value — up to 690 V for current peak value n=30 rated	18 A
value	
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	
 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 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 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	
 with 3 current paths in series at DC-1 — at 24 V rated value 	35 A
 with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 	35 A
 with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value 	35 A 35 A
 with 3 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value 	35 A 35 A 2.9 A
 with 3 current paths in series 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 	35 A 35 A
with 3 current paths in series 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 operational current	35 A 35 A 2.9 A
 with 3 current paths in series 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 	35 A 35 A 2.9 A

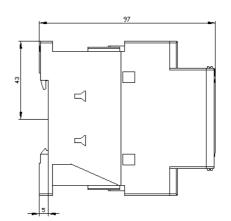
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 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
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 kV·A
• up to 400 V for current peak value n=20 rated value	21.3 kV·A
• up to 500 V for current peak value n=20 rated value	23.3 kV·A
up to 690 V for current peak value n=20 rated value	25 kV·A
operating apparent power at AC-6a	9.4 10/ 4
• up to 230 V for current peak value n=30 rated value	8.1 kV·A
• up to 400 V for current peak value n=30 rated value	14.2 kV·A
• up to 500 V for current peak value n=30 rated value	15.5 kV·A 21.5 kV·A
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state	21.5 KV A
up to 40 °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 	395 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 	186 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	152 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-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	230 V
operating range factor control supply voltage rated	
value of magnet coil at AC	0.9 1.1
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC • at 50 Hz	77 V·A
• al 30 mz	

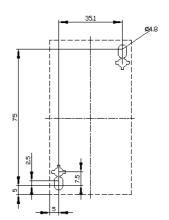
inductive newer factor with closing newer of the sell				
inductive power factor with closing power of the coil	0.02			
at 50 Hz apparent holding power of magnet coil at AC	0.82			
apparent holding power of magnet coll at AC o at 50 Hz	9.8 V·A			
inductive power factor with the holding power of the				
coil				
• at 50 Hz	0.25			
closing delay				
• at AC	8 40 ms			
opening delay				
• at AC	4 16 ms			
arcing time	10 10 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	1			
instantaneous contact				
operational current at AC-12 maximum	10 A			
operational current at AC-15	10.4			
at 230 V rated value at 400 V rated value	10 A			
at 400 V rated value	3 A 2 A			
 at 500 V rated value at 690 V rated value 	2 A 1 A			
operational current at DC-12				
at 24 V rated value	10 A			
at 48 V rated value	6 A			
at 60 V rated value	6 A			
at 110 V rated value	3 A			
at 125 V rated value	2 A			
at 220 V rated value	1A			
at 600 V rated value	0.15 A			
operational current at DC-13				
at 24 V rated value	10 A			
at 48 V rated value	2 A			
at 60 V rated value	2 A			
at 110 V rated value	1A			
 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 				
— 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 				

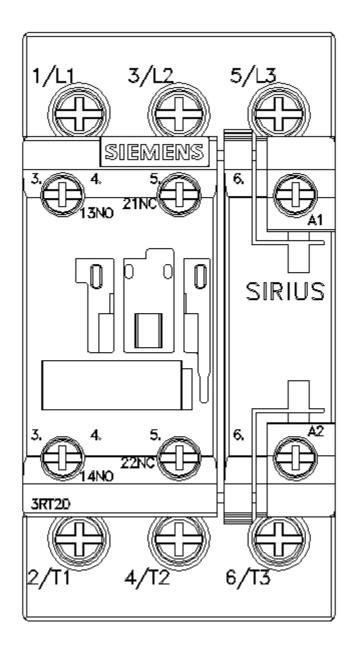
with type of assignment 2 required g5: 604 (600V, 100kA), BXSB: 50A (415V, 80kA) • for short-circuit protection of the auxiliary switch required g5: 10 A (500 V, 1 kA) mounting position +140° rotation possible on vertical mounting surface; can be tilted forward and backward by +1-2.2.5 on vertical mounting surface; fastening method scee-why and samp-on mounting on 35 mm standard mounting real method e side-by-side mounting Yes e side-by-side mounting Yes e side-by-side mounting 97 mm required spacing Yes • with side-by-side mounting 10 mm - downwards 10 mm		(415V,80kA)			
 or stort-circuit protection of the auxiliary switch required insufficient mounting differences in the state of the store of an entitient mounting surface: can be tilted in the store of an entitient mounting surface: can be tilted in the store of an entitient mounting surface: can be tilted in the store of an entitient mounting surface: can be tilted in the store of an entitient mounting in the store of a store of the store of an entitient mounting in the store of a store of a	— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,			
Installation/mounting climensions +/-101*rotation possible on vertical mounting surface: can be liked Fistering method screw and snap-on mounting on to Smm standard mounting rail • side-by-side mounting Yes Meight Bir mm width 45 mm depth 97 mm required spacing 10 mm • widt deby-side mounting 10 mm - downards 10 mm		,			
meunting position +160° rotation possible on vertical mounting surface on be bited forward and backward by +2.26° on vertical mounting surface festening method screw and snap-on mounting onto 35 mm standard mounting ratil according to DIN EN 60715 height 85 mm width 45 mm depth 97 mm required spacing • • with side-by-side mounting 10 mm - upwards 10 mm - downwards 10 mm <td></td> <td></td>					
fastening method screw and snap-on mounting onto 35 mm standard mounting rail acids-by-side mounting height Yes height 86 mm depth 97 mm required spacing 97 mm • with side-by-side mounting 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - of rails and control circuit screw-type terminals of mails and control circuit screw-type terminals of mails and control circuit screw-type terminals - asoid or standed 2x (1 25 mm?) 2x (2.5 10 mm²)					
• side-by-side mounting Yes height 85 mm width 45 mm depth 97 mm required spacing 97 mm - explanded spacing 97 mm - explanded spacing 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxilary and control circuit screw-type terminals of or auxilary and control circuit screw-type terminals - of or auxilary con	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting 97 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - of or main current circuit screw-type terminals stor add cortrol circuit screw-type terminals </td <td> side-by-side mounting </td> <td colspan="4">-</td>	 side-by-side mounting 	-			
depth 97 mm required spacing 97 mm required spacing 0 mm - for wards 10 mm - downwards 10 mm - at the side 6 mm Connectable conductor cross-sections <	height				
required spacing • with side-by-side mounting - Growards - upwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts - forwards - forwards 10 mm - upwards - forwards 10 mm - at the side - forwards 10 mm - downwards	width	45 mm			
• with side-by-side mounting 10 mm - forwards 10 mm - downwards 10 mm - downwards 0 mm - downwards 0 mm - forwards 10 mm - downwards 10 mm	depth	97 mm			
- forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm • for grounded parts 10 mm - upwards 10 mm - downwards 2x	required spacing				
upwards10 mm downwards0 mm forwards10 mm forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm forwards10 mm forwards10 mm downwards10 mm downwards5 crew-type terminals for audilary contactsScrew-type terminals for audilary contactsScrew-type terminals for audilary contacts2x (1 25 mm²), 2x (25 10 mm²) solid2x (1 25 mm²), 2x (25 10 mm²) solid2x (1 25 mm²), 2x (25 10 mm²) solid or stranded1 10 mm² finely stranded with core end processing2x (1 25 mm²) solid or stranded1 10 mm² solid or stranded2x (05	 with side-by-side mounting 				
	— forwards				
 for grounded parts forwards forwards at the side at the side at the side at contactor at contactor for auxiliary contacts screw-type terminals screw-type terminals screw-type terminals at contactor for auxiliary contacts Screw-type terminals at contactor for auxiliary contacts Screw-type terminals screw-type term					
- forwards 10 mm		0 mm			
- upwards 10 mm - at the side 6 mm - downwards 10 mm - forvards 10 mm - forvards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connectable conductor cross-sections 6 mm in contacts • for main contacts 5 crew-type terminals • solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) - mine to stranded 2x (1 2.5 mm ²), 2x (2.5 0 mm ²), 1x 10 mm ² • for ausiliary contacts 2x (1 2.5 mm ²), 2x (2.5 0 mm ²), 1x 10 mm ² • solid c stranded 1 10 mm ² • finely stranded with core end processing 1	0				
	— forwards				
downwards 10 mm • for live parts forwards forwards 10 mm downwards 10 mm art the side 6 mm Connectable conductor conselections screw-type terminals • of main contacts Screw-type terminals • of main contacts Screw-type terminals • of main contacts Screw-type terminals • solid or stranded 2x (1 25 mm ²), 2x (2.5 10 mm ²) solid or stranded 2x (1 25 mm ²), 2x (2.5 10 mm ²) • solid or stranded 1 10 mm ² • solid or stranded 1 10 mm ² • solid or stranded 0.5 2.5 mm ³ • solid or stranded 0.5 2.5 mm ³ • finely stranded w	•				
 for live parts forwards forwards upwards downwards mm downwards mm at the side for main current circuit screw-type terminals or auxiliary and control circuit screw-type terminals screw-type terminals of magnet coil Screw-type terminals of main current circuit screw-type terminals of magnet coil Screw-type terminals of magnet coil Screw-type terminals type of connectable conductor cross-section for main contacts screw-type terminals ton mm² ton mm² ton					
forwards 10 mm upwards 10 mm downwards 6 mm Connections/Terminals 6 mm Connections/Terminals screw-type terminals • for main current circuit screw-type terminals • at contactor for auxiliary and contacts Screw-type terminals • of main contacts Screw-type terminals solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) solid standed 2x (1 2.5 mm²), 2x (2.5 10 mm²) solid standed 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • solid 1 10 mm² • stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5		10 mm			
- upwards 10 mm - downwards 0 mm - a the side 6 mm 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 main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coll 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) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 1 10 mm² - finely stranded with core end processing 1 10 mm² • stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) • at AWG cables for auxiliary contacts </td <td></td> <td></td>					
- downwards 10 mm - a the side 6 mm Connections/Terminals 6 mm type of electrical connection 6 rm ain current circuit • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of majne coil Screw-type terminals • of main contacts - solid - solid control circuit Screw-type terminals • for main contacts - solid or stranded - solid conductor cross-sections 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 12), 2x (14 8) connectable conductor cross-section for main contacts 2x (1 10 mm² • solid 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm²) • finely stranded with core end processing 0.5 2.5 mm²) • for auxillary contacts 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²) • finely stranded with core end processing 0.5 2.5 mm²) • finely stranded with core end processing 2x (0.5					
at the side 6 mm Connections/ Terminals screw-type ferminals type of electrical connection screw-type terminals • for main current circuit screw-type terminals • at xulliary and control circuit Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • of main contacts Screw-type terminals - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²					
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid 1 10 mm² - finely stranded with core end processing • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts • solid 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) • solid or stranded 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) <tr< td=""><td></td><td></td></tr<>					
type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil screw-type terminals Screw-type terminals Screw-type terminals		6 mm			
 for main current circuit for auxiliary and control circuit for auxiliary and control circuit screw-type terminals at contactor for auxiliary contacts of magnet coil Screw-type terminals 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 10 mm²) 2x (1 2.5 mm²), 2x (14 8) 	Connections/ Terminals				
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals of magnet coil Screw-type terminals Screw-type					
• at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts • for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 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 • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • solid 1 10 mm² • solid 1 10 mm² • finely stranded with core end processing 1 10 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 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) • finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) <t< td=""><td></td><td></td></t<>					
• of magnet coilScrew-type terminalstype of connectable conductor cross-sections•• for main contacts solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section2x (20 16), 2x (18 14)	for main current circuit				
type of connectable conductor cross-sections• for main contacts- solid- solid or stranded- finely stranded with core end processing• at AWG cables for main contacts• solid• solid• at AWG cables for main contacts• solid• stranded• stranded• finely stranded with core end processing• finely stranded with core end processing• solid or stranded• finely stranded with core end processing• solid or stranded• finely stranded with core end processing• finely stranded with core end processing• for auxiliary contacts• solid or stranded• for auxiliary contacts- solid or stranded• for auxiliary contacts- solid or stranded• for auxiliary contacts- solid or stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing• at AWG cables for auxiliary contacts- solid or stranded- solid or stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)2x (20 16), 2x (18 14)AWG mumber as coded connectable conductor crosssection• for main contacts16 8	 for main current circuit for auxiliary and control circuit 	screw-type terminals			
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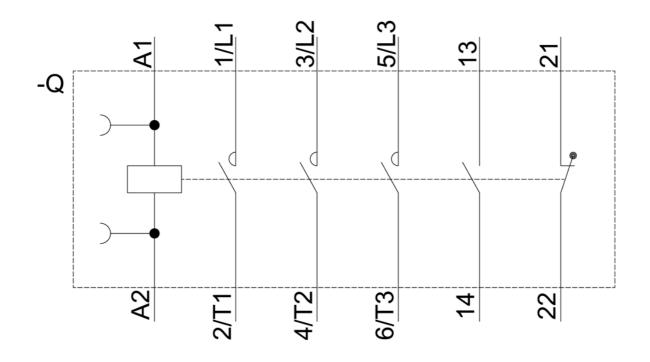
Safety related data						
	rror contact acc. to IEC 60947-4-1	Yes	Yes			
B10 value with high d	lemand rate acc. to SN 31920	450	000			
proportion of dange	rous failures					
 with low deman 	nd rate acc. to SN 31920	40 9	%			
 with high dema 	nd rate acc. to SN 31920	73 9	%			
failure rate [FIT] with	low demand rate acc. to SN 31920	100	FIT			
T1 value for proof te IEC 61508	est interval or service life acc. to	20 y	у			
protection class IP	on the front acc. to IEC 60529	IP2	IP20			
touch protection on	buch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front					
suitability for use						
 safety-related s 	witching OFF	Yes	i			
Certificates/ approval	s					
General Product Ap	oproval				EMC	
(SP) Em)	<u>KC</u>	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates		Marine / Shipping	
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DE	<u>Confirmation</u>					
Further information						
	wnloadcenter (Catalogs, Brochure	es,)				
https://www.siemens.com/ic10						
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-1AP00						
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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.automatio	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AP00⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current					
	ry.siemens.com/cs/ww/en/ps/3RT202					
Further characteristics (e.g. electrical endurance, switching frequency)						











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