SIEMENS

Data sheet

3RT2027-2AV04



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
product extension	
 function module for communication 	No
 auxiliary switch 	No
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 	9.8 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 %
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	50 A
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	42 A
value	
● 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 at AC-6a 	26.5 A
	30.8 A
— up to 230 V for current peak value n=20 rated value	
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	30.8 A 27 A
— up to 690 V for current peak value n=20 rated value	21 A 21 A
• at AC-6a	21A
 up to 230 V for current peak value n=30 rated value 	20.5 A
— up to 200 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	10 mm ²
value	
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 	
— 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-	
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
	15.5 kVA
 up to 500 V for current peak value n=30 rated value 	
• up to 690 V for current peak value n=30 rated value	21.5 kVA
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C	21.5 kVA
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value
 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value
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type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	400 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 	77 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
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	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 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

Sparset calcular protection of the main cloud: - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - with type of continuint i required - mounting protection + 22 sin with the type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i required - with solut type of continuint i requir	contact rating of auxiliary contacts according to UL	A600 / Q600
design of the fuse link • for short-focts protocion of the main chool · with type of assignment 2 required · with type of assignment 2 required ·		10007 2000
 or short-local protection of the main cruit. with type of assignment 2 required g6: R0A. (800V, 100A), AM. 50A. (R50V, 100AA), R58B: 126A. (415V, 80AA) g6: R0A. (800V, 10AA), AM. 50A. (R50V, 100AA), R58B: 50A. (415V, 80AA) g6: R0A. (800V, 10AA), AM. 50A. (R50V, 100AA), R58B: 50A. (415V, 80AA) g6: R0A. (800V, 10AA), AM. 50A. (R50V, 100AA), R58B: 50A. (415V, 80AA) g6: R0A. (800V, 10AA), AM. 50A. (R50V, 100AA), R58B: 50A. (415V, 80AA) g6: R0A. (800V, 10AA), AM. 50A. (R50V, 100AA), R58B: 50A. (415V, 80AA) g6: R0A. (800V, 10AA), AM. 50A. (800V, 11AA) Fastening method scate-and smaper mounting outface: can be sitted forward and maper mounting outface: can be sitted forward and smaper mounting outface: can be sitted forward and maper mounting		
- with spe of conductor in regulard of: 126.1 (600/. 100A), att. 50.4 (600/. 100A), bit. 50.4 (600/. 10A), bit. 50.4 (6		
- with yes of assignment 2 required - for shard-calcing procession of the subline version in equilation possible on version in mounting unlines, can be tilled forward and bestelland and the subline version in equilation possible on version in mounting unlines, can be tilled forward and bestelland the subline version in equilation possible on version in mounting unlines, can be tilled forward and bestelland the subline version in equilation possible on version in mounting unlines, can be tilled forward and bestelland the subline version in equilation possible on version in mounting unlines, can be tilled forward and secret and snap on mounting onto 35 mm DIN rail according to DIN EN EDT 15 • sold by side mounting * the suble on the subline version in the subline version in mounting unlines, can be tilled forward and required spacing • unline version in the subline version in mounting unlines, can be tilled forward and * unwards • unwards • unwards • unwards • unwards • the suble • the sub		aG: 1254 (690V 100k4) aM: 504 (690V 100k4) BS88: 1254 (415V 80k4)
• or short-circut protection of the auxilary which required 90: 10.4 (500 V, 1 kA) Installation/meuning/clinearsions • of 500 (100 (100 (100 (100 (100 (100 (100		
Installation mounting cellion		
meanting position +180° traction possible on vertical mounting surface can be liked forward and because day +2.22° or vertical mounting surface can be liked forward and day of the surface on mounting onto 35 mm DIN rail according to DIN EN 60715 • side t-by-side mounting Yes • height 102 rm width 45 mm depth 144 mm required spacing 10 mm • elde t-by-side mounting 10 mm - downards		99. 10 A (300 V, 1 M)
backward by +2 25 for vertical mounting sufface. Statning method several stage-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes Yes height 45 mm depth 45 mm required spacing 44 mm eight 44 mm required spacing 10 mm - (wards) 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - at the side 9 mm - forwards 10 mm - at the side 9 mm <td></td> <td>1/ 400° relation nearthly on vertical mounting surfaces can be tilted forward and</td>		1/ 400° relation nearthly on vertical mounting surfaces can be tilted forward and
• side-by-side mounting Yes height 102 mm depth 144 mm depth 144 mm required spacing - - forwards 10 mm - upwords 10 mm - upwords 10 mm - downwards 00 mm - downwards 10 mm - downwards 00 mm - downwards 10 mm - downwards 20 mm - downwards 10 mm - downwards 20 mm - downwards 20 mm	mounting position	
height 102 mm with 45 mm depth 144 mm required spacing 10 mm - forwards 10 mm - downwards 10 mm <td>fastening method</td> <td>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</td>	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
with 45 mm doph 14 mm required spacing 144 mm • with side-by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - downwards 00 mm - downwards 10 mm - downwards 5pring-byce terminals of rausliary contacts Spring-byce terminals ype of olactical connectable Spring-byce terminals of	 side-by-side mounting 	Yes
depth 144 mm required spacing 144 mm required spacing 10 mm - workds 10 mm - workds 10 mm - downwards 10 mm - at the side 6 mm Contraction 5 pring-loaded terminals of	height	102 mm
required spacing with side-sy-side mounting - (nowards - upwards - downwards - downwards - upwards - downwards - upwards - or main. - upwards - or main. - upwards - or main. - or main.<td>width</td><td>45 mm</td>	width	45 mm
• with side by-side mounting - forwards 10 mm - growards 10 mm - downwards 10 mm - downwards 0 mm - for grounded parts 0 mm - forwards 10 mm - growards 10 mm - downwards 10 mm <td>depth</td> <td>144 mm</td>	depth	144 mm
- forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - dowmards 10 mm - dowmards 5 mm - dowmards 6 mm - dowmards 5 mm - of main current circuit spring-loaded terminals - of main current circuit spring-loaded terminals - of main current for auxilary contacts <td< td=""><td>required spacing</td><td></td></td<>	required spacing	
	 with side-by-side mounting 	
- downwards10 mm- at the side0 mm- forwards10 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- for live parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 mm- downwards10 mm- downwards5 mm- downwards9 mm- downards9 mm- for auxiliary contacts2 x (1 10 mm ²)- solid or stranded1 10 mm ² - forley stranded without core end processing0 5 15 mm ³ - f	— forwards	10 mm
at the side 0 mm for younded parts 00 mm upwards 10 mm upwards 0 mm at the side 6 mm downwards 10 mm forwards 10 mm forwards 10 mm upwards 10 mm forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connection 5 pring-type terminals of magnet coll Spring-type terminals visit or standed 2x (1 10 mm ²) • solid or standed 2x (1 10 mm ²) • solid or standed 1 10 mm ² • solid or standed with core end processing 2x (1 6 mm ²) • finely standed with core end processing 1 6 mm ² • finely standed with core end processing 1 6 mm ² • finely standed with core	— upwards	10 mm
• for grounded parts10 mm- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- for live parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards6 mmConnections/ Terninals5 ming-loaded terminalsYppe of electrical connection5 pring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary contactsSpring-loaded terminals• of magnet coil2 x (1 10 mm²)• solid2 x (1 10 mm²)• solid2 x (1 10 mm²)• solid2 x (1 6 mm²)• finely stranded with core end processing2 x (1 6 mm²)• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 6 mm²• finely stranded with core end processing1 5 mm²• finely stranded with core end processing5 25 mm²• finely stranded with core end processing2 25 mm²• finely stranded with core end processing </td <td>— downwards</td> <td>10 mm</td>	— downwards	10 mm
- forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm for live parts	— at the side	0 mm
upwards 10 mm at the side 6 mm downwards 10 mm forwards 10 mm upwards 10 mm downwards 6 mm downwards 6 mm downwards 5 mm Connectative control circuit spring-loaded terminals - of ra auxiliary contacts Spring-type terminals - of or auxiliary contacts Spring-type terminals - solid 2x (1 10 mm ²) - solid or stranded 2x (1 10 mm ²) - solid or stranded 1 10 mm ² - stranded with core end processing 1 10 mm ² - finely stranded without core end processing 1 6 mm ³ - finely stranded without core end processing 1 6 mm ³ <	 for grounded parts 	
- at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 6 mm Connections/ Terminals 5 pring-loaded terminals of or main current circuit spring-loaded terminals • for main current circuit spring-loaded terminals • of magnet coll Spring-type terminals • of magnet coll 2x (1 10 mm²) • solid or stranded 2x (1 10 mm²) • solid or stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 1 10 mm² • solid 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 1 6 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 0.5 2.5 mm² • for auxiliary contacts - solid or stranded	— forwards	10 mm
downwards 10 mm • for like parts - forwards 10 mm downwards 5 ming-loaded terminals of rauxiliary contacts Spring-loaded terminals • of magnet coil Spring-loaded terminals • of magnet coil Spring-loaded terminals • solid 2x (1 10 mm ²) • solid or stranded 2x (1 10 mm ²) • solid or stranded with core end processing 2x (1 6 mm ²) • solid or stranded 1 10 mm ² • finely stranded with core end processing 1 6 mm ² • finely stranded with core end processing 0.S 2.5 mm ² • linely stranded with core end processing 0.S 1.5 mm ² <tr< td=""><td>— upwards</td><td>10 mm</td></tr<>	— upwards	10 mm
• for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Torninals 5 mm Type of electrical connection 6 mm • for main current circuit spring-loaded terminals • at contactor for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-lype terminals /type of connectable conductor cross-sections for main contacts solid • solid or stranded 2x (1 10 mm²) • finely stranded with core end processing 2x (1 6 mm²) • solid 1 10 mm² • solid 1 10 mm² • solid or stranded 1 6 mm² • solid or stranded 0.5 2.5 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 2.5 mm² <t< td=""><td>— at the side</td><td>6 mm</td></t<>	— at the side	6 mm
forwards 10 mm upwards 10 mm downwards 6 mm Connections/ Terminals 5 mm Connections/ Terminals 5 pring-loaded terminals • for awiliary and control circuit spring-loaded terminals • of magnet coil 5 pring-type terminals Pype of connectable conductor cross-sections for main contacts 5 pring-type terminals • solid 2x (1 10 mm²) • solid or stranded 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • finely stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 1 6 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 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for awiliary contacts 2x (0.5 2.5 mm²) • for awiliary contacts<	— downwards	10 mm
- upwards 10 mm - downwards 10 mm - at the side 6 mm Connection/ Service type of electrical connection • for axiliary and control circuit spring-loaded terminals • of or axiliary contacts Spring-type terminals • of connectable conductor cross-sections for main contacts Spring-type terminals • of connectable conductor cross-sections for main contacts Spring-type terminals • of connectable conductor cross-sections for main contacts Spring-type terminals • of connectable conductor cross-section for main contacts Spring-type terminals • solid 2x (1 10 mm ³) • solid or stranded 2x (1 10 mm ³) • finely stranded with ours end processing 2x (1 6 mm ³) • finely stranded with core end processing 1 6 mm ³ • solid or stranded 1 10 mm ² • solid or stranded 1 6 mm ³ • finely stranded with core end processing 1 6 mm ³ • finely stranded with core end processing 1 6 mm ³ • solid or stranded 0 5 25 mm ³ • solid or stranded 0 5 25 mm ³ • finely stranded with core end processing 0 5 25 mm ³ • finely stranded with core end processing 2x (0 5 25 mm ³) <td>• for live parts</td> <td></td>	• for live parts	
- downwards 10 mm - a the side 6 mm Connections/Terminals 5 mm type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • of magnet coll Spring-type terminals • of anginet coll Spring-type terminals • solid 2x (1 10 mm²) • solid or stranded 2x (1 10 mm²) • finely stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • finely stranded with core end processing 1 10 mm² • solid 1 10 mm² • finely stranded with core end processing 1 10 mm² • finely stranded with core end processing 1 10 mm² • finely stranded with core end processing 1 10 mm² • finely stranded with core end processing 0.5 2.5 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 2x (0.5 2.5 mm²) • finely stranded with core end processing	— forwards	10 mm
at the side 6 mm Connections/Terminals type of electrical connection • for auxiliary and control circuit spring-loaded terminals • of rauxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coll Spring-type terminals • of magnet coll Spring-type terminals • solid 2x (1 10 mm²) • solid or stranded 2x (1 10 mm²) • finely stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • solid 1 10 mm² • solid 1 10 mm² • solid or stranded 1 10 mm² • stranded 1 10 mm² • solid or stranded 0.5 25 mm² • finely stranded with core end processing 0.5 25 mm² • finely stranded with core end processing 2x (0.5 25 mm²) • finely stranded with core end processing 2x (0.5 25 mm²) • finely stranded with core end processing 2x (0.5 25 mm²) • finely stranded without core end processing 2x (0.5	— upwards	10 mm
Connections/Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coll Spring-type terminals • of magnet coll Spring-type terminals • solid or stranded 2x (1 10 mm²) • solid or stranded 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 6 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 6 m² connectable conductor cross-section for auxiliary contacts solid or stranded • 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 2.5 mm² • finely stranded with core end processing 2x (0.5 1.5 mm²) • finely stranded with core end processing	— downwards	10 mm
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• of magnet coll Spring-type terminals type of connectable conductor cross-sections for main contacts 2x (1 10 mm²) • solid 2x (1 10 mm²) • solid or stranded 2x (1 10 mm²) • finely stranded with core end processing 2x (1 6 mm²) • connectable conductor cross-section for main contacts	 for auxiliary and control circuit 	spring-loaded terminals
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• finely stranded without core end processing2x (1 6 mm²)connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 6 mm²• finely stranded without core end processing1 6 mm²• finely stranded without core end processing1 6 mm²• solid or stranded0.5 2.5 mm²• solid or stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0.5 2.5 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• for auxiliary contacts2x (0.5 2.5 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 14)AWG number as coded connectable conductor cross section38 8	 finely stranded with core end processing 	2x (1 6 mm²)
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AWG number as coded connectable conductor cross section 18 8		
	AWG number as coded connectable conductor cross	
• for auxiliary contacts 20 14	for main contacts	18 8

afety related data					
product function					
	ccording to IEC 60947-4-1		Yes		
· · ·	operation according to IE		No		
310 value with high de	emand rate according to SI	N 31920	450 000		
proportion of danger	ous failures				
 with low deman 	d rate according to SN 319	920	40 %		
 with high demar 	nd rate according to SN 31	920	73 %		
ailure rate [FIT] with lo	ow demand rate according	to SN 31920	100 FIT		
F1 value for proof test	interval or service life acco	ording to IEC	20 a		
protection class IP on the front according to IEC 60529		IP20			
ouch protection on t	the front according to IE	C 60529	finger-safe, for vertical conta	act from the front	
suitability for use					
 safety-related system 	witching OFF		Yes		
ertificates/ approvals					
General Product App	proval				
()					EHL
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	conformity	Test Certificates	
	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certif</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uts	PRS	RINA
Marine / Shipping	other			Railway	Environment
	<u>Confirmation</u>		<u>Confirmation</u>	<u>Vibration and Shock</u>	<u>Environmental Co</u> <u>firmations</u>
RMRS					
rther information	t to exit the Russian mar				

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=3RT2027-2AV04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-2AV04

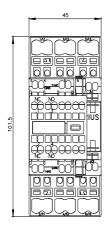
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AV04

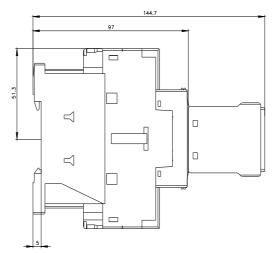
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

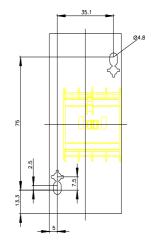
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2AV04&lang=en

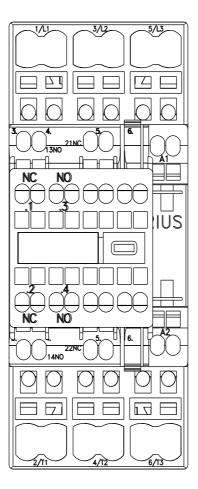
Characteristic: Tripping characteristics, I²t, Let-through current

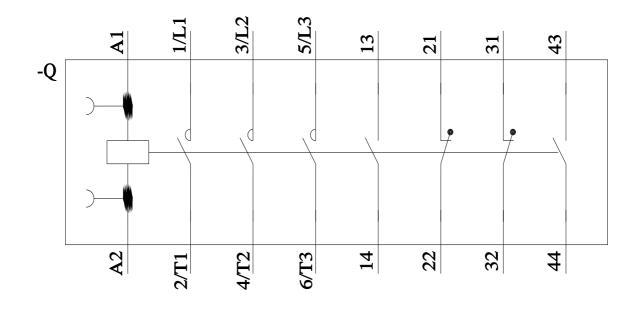
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AV04/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2AV04&objecttype=14&gridview=view1











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