SIEMENS

Data sheet

3RT2027-2NF30



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 95-130 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal

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 	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 	1.8 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 safe isolation 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		
• at DC	10g / 5 ms, 7,5g / 10 ms		
shock resistance with sine pulse			
• at AC	13,5g / 5 ms, 8,3g / 10 ms		
• at DC	15g / 5 ms, 10g / 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 	50 A		
rated value			
• at AC-1			
— up to 690 V at ambient temperature 40 °C	50 A		
rated value	40.4		
— 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 	30.8 A		
value			
 up to 400 V for current peak value n=20 rated 	30.8 A		
value			
 — 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	21 A		
value			
• at AC-6a			
 up to 230 V for current peak value n=30 rated 	20.5 A		
value			
 up to 400 V for current peak value n=30 rated 	20.5 A		
value			
 — 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	18 A		
value	10 A		
minimum cross-section in main circuit at maximum AC-1	10 mm ²		
rated 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 20 A		
— at 60 V rated value	4.5 A		
— at 110 V rated value — at 220 V rated value	4.5 A 1 A		
— at 440 V rated value	0.4 A		
— at 600 V rated value	0.45 A		
 with 2 current paths in series at DC-1 	0.20 M		
with 2 current paths in series at DC-1 — at 24 V rated value	35 A		
— at 60 V rated value	35 A 35 A		
— at 110 V rated value	35 A 35 A		
— at 220 V rated value	5 A		
— at 440 V rated value	1A		
— at 600 V rated value	0.8 A		
with 3 current paths in series at DC-1			
— at 24 V rated value	35 A		

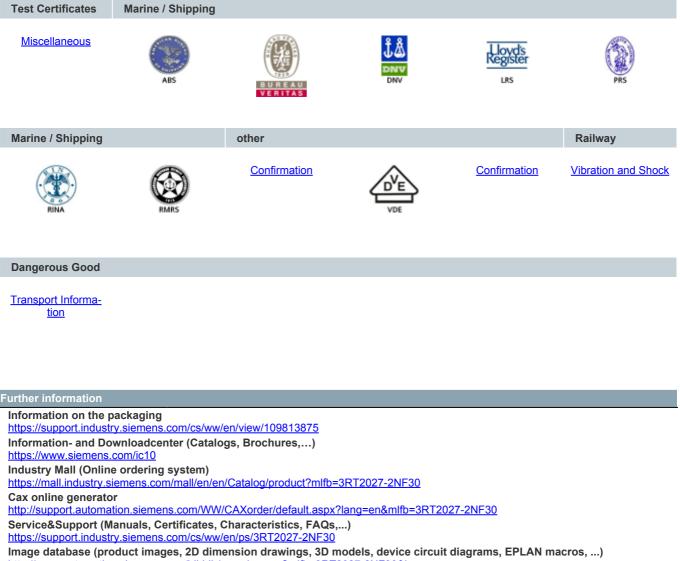
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— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
	1.4 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V 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 60 V rated value	35 A
	15 A
— at 110 V rated value	
— 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	0.077
• at AC-3	7.5.1.11
— 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 withstand current in cold operating state 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 	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
_	162 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	
no-load switching frequency	4 500 4/1-
• at AC	1 500 1/h
• at DC	1 500 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/DC
control supply voltage at AC	
 at 50 Hz rated value 	95 130 V
 at 60 Hz rated value 	95 130 V
control supply voltage at DC	
 rated value 	95 130 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.7
• full-scale value	1.3
operating range factor control supply voltage rated	
value of magnet coil at AC	07 40
• at 50 Hz	0.7 1.3 0.7 1.3
• at 60 Hz	
design of the surge suppressor	with varistor
inrush current peak	15 A 20 up
duration of inrush current peak	30 µs
locked-rotor current mean value	0.13 A
locked-rotor current peak duration of locked-rotor current	0.19 A 180 ms
holding current mean value	19 mA
 apparent pick-up power of magnet coil at AC at 50 Hz 	11.9 VA
• at 60 Hz	12 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.98
• at 60 Hz	0.98
apparent holding power of magnet coil at AC	0.50
apparent noticing power of magnet con at Ao at 50 Hz	1.6 VA
• at 60 Hz	1.8 VA
inductive power factor with the holding power of the	1.0 VA
coil	
● at 50 Hz	0.79
• at 60 Hz	0.74
closing power of magnet coil at DC	10.2 W
holding power of magnet coil at DC	1.3 W
closing delay	
• at AC	50 80 ms
• at DC	50 80 ms
opening delay	
• at AC	30 50 ms
• at DC	30 50 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	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	40.4
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
at 230 V rated value	10 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	10.4
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 25 V intel Value at 26 V intel Value at 26 V intel Value bit 26 V intel Value constrained Value constrain	a at 405 V rated value	0.4		
• at 800 V rated value 0.15 Å • at 24 V rated value 10 Å • at 46 V rated value 2 Å • at 60 V rated value 2 Å • at 60 V rated value 2 Å • at 715 V rated value 1 Å • at 725 V rated value 0.9 Å • at 800 V rated value 0.9 Å • at 800 V rated value 0.9 Å • at 800 V rated value 0.1 Å • at 800 V rated value 0.1 Å • at 800 V rated value 2 Å • at 800 V rated value 5 Å • at 800 V rated value 5 Å • at 800 V rated value 5 Å • at 800 V rated value 10 Å	at 125 V rated value	2 A		
operational current at DC-13 Image: ima				
 at 24 V tated value at 34 V tated value at 36 V trade value at 37 V trade value at 38 V trade value be side value at 38 V trade value be side value be side value be 30 V trade value be side value at 30 V trade value be side value be side value be side value at 30 V trade val		0.15 A		
a # 45 V rated value 2 Å a # 60 V rated value 1 Å a # 120 V rated value 0.9 Å a # 120 V rated value 0.3 Å a # 120 V rated value 0.3 Å a # 120 V rated value 0.1 Å contact reliability of auxillary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) UCGSA ratings 27 Å full-load current (FLA) for 3-phase AC motor 7 Å - at 400 V rated value 27 Å • at 600 V rated value 27 Å - at 101/120 V rated value 27 Å - at 200 V rated value 5 hp - for single-phase AC motor - - at 200/200 V rated value 5 hp - at 200/200 V rated value 5 hp - at 200/200 V rated value 20 hp - at 675/600 V rated value 20 hp - at 676/600 V rated value 20 hp - at 70 value value 5 hp - or short-circuit protection of the auxillary contat according to U - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required for short-circuit protection of the auxil	•	40.4		
 a 60 V arad value a A at 132 V rada Value a A at 230 V rada Value at 240 V rada Value 27 A at 600 V rada Value 27 A at 230 V rada Value 5 hp at 230 V rada Value 5 hp at 230 V rada Value 10 hp - at 230 V rada Value 20 hp - at 230 V rada Value 20 hp - at 2400208 V rada Value 20 hp - at 460440 V rada Value 20 hp - at 230 V rada Value 20 hp - at 460440 V rada Value - at 460440 V rada Value - at 4604				
• #1 10 V rated value 1 A • #1 20 V rated value 0 3 A • at 200 V rated value 0.3 A • at 600 V rated value 0.1 A Contact reliability of auxiliary contacts 1 faility switching per 100 million (17 V. 1 mA) UUCSA ratings 7 A • at 600 V rated value 27 A • of angle-phase AC motor -				
• 1125 V rade value 0.9 Å • at 600 V rade value 0.1 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) Ut/GSA ratio 1 faulty switching per 100 million (17 V, 1 mÅ) Ut/GSA ratio 27 Å • at 600 V rade value 27 Å • at 600 V rade value 27 Å • at 600 V rade value 27 Å • of single-phase AC motor - - at 1220/230 V rated value 5 hp • for single-phase AC motor - - at 220/230 V rated value 10 hp - at 220/230 V rated value 20 hp - at 220/230 V rated value 10 hp - at 220/230 V rated value 20 hp - at 4200 V rated value 20 hp - at 575600 V rated value 20 hp - at 575600 V rated value 20 hp - or with ype of assignment 2 required 36: 10 (600 V, 100 kA), aM: 25A (690V, 100 kA				
 ei 200 V rated value 0.3 Å ei 800 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UUCSA ratings UUCSA ratings UUCSA ratings UUCSA ratings ei 480 V rated value 27 Å ei 480 V rated value 2 hp ei 480 V rated value 5 hp for angle-phase AC motor - at 202/280 V rated value 5 hp for 3-phase AC motor - at 202/280 V rated value 20 hp - at 400480 V rated value 20 hp - at 4000 V rated value 20 hp - at 400480 V rated value 20 hp - at 4000 V rated value 20 hp - at 400480 V rated value 20 hp - other value protection of the main circuit - with hype of coordination 1 required (di 525A (690V, 100A), aM: 50A (690V, 100A), BS8E: 125A (di 715 A (500 V, 100A), aM: 25A (690V, 100A), BS8E: 125A (di 715 A (500 V, 10A), aM: 25A (690V, 100A), BS8E: 125A (di rat and tacc				
• et 600 V rated value 0.1 Å Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UUCSA ratings 27 Å • et 480 V rated value 27 Å • et 480 V rated value 27 Å • et 480 V rated value 27 Å • et 101 V rated value 27 Å • et 300 V rated value 27 Å • et 300 V rated value 27 Å • et 300 V rated value 2 hp • et 300 V rated value 5 hp • for 3-phase AC motor 10 hp • et 320020 V rated value 10 hp • et 320020 V rated value 20 hp • et 300200 V rated value 20 hp • et 375600 V rated value 20 hp • et 375600 V rated value 20 hp • or short-circuit protection of the main circuit 96 r326 (800V 100kA), aM: 50A (690V,100kA), BS88: 125A (415V, 506A) • for short-circuit protection of the auxiliary switch required 96 r30 (500V,100kA), aM: 25A (690V,100kA), BS88: 125A (415V, 506A) • for short-circuit protection of the auxiliary switch required 96 r30 (500V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V, 506A) • for short-circuit protection of the auxiliary switch required 97 r 128 rate rate rate rate rate rate rate rate				
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULGSA ratings FiltI-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 800 V rated value 27 A • of value phase AC motor - • - at 110/120 V rated value 2 hp • - at 200 V rated value 2 hp • - at 2002 V rated value 2 hp • - at 200220 V rated value 20 hp at 460480 V rated value 20 hp at 110 rate infa 65 rs 500 V rated value 0 for short-circuit protection of the main circuit gG: 125A (800V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V, 80KA) - with type of coastignment 2 required gG: 50A (690V,100kA), aM: 50A (690V, 100kA), BS88: 125A (415V, 80KA) - with side-by-side mounting GG: 50A (690V,100kA), aM: 50A (690V, 100kA), BS88: 125A (415V, 80KA) - with side-by-side mounting - (-100 rotation possible on vet				
IUI-CSA ratings full-load current (FLA) for 3-phase AC motor • at 800 V rated value 27 A • at 800 V rated value 27 A • at 800 V rated value 27 A • of single-phase AC motor - • - at 230 V rated value 5 hp • of 3-phase AC motor - • - at 230 V rated value 5 hp • of 3-phase AC motor - at 200230 V rated value 20 hp at 200230 V rated value 20 hp at 575600 V rated value 20 hp - at 575600 V rated value 20 hp - at 575600 V rated value 20 hp - with type of acutilary contacts according to UL A000 / P600 Short-circuit protection of the main circut - - with type of assignment 2 required gC: 125A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 125A (415V, 80KA) - for short-circuit protection of the auxiliary switch required gC: 10 A (500 V, 1 0kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80KA) • side-by-side mounting +/-180' rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface • side-by-side mounting +/-180' rotation possible on vertical mounting surface				
tuil-load current (FLA) for 3-phase AC motor 27 A • at 600 V rated value 27 A • at 600 V rated value 27 A • for single-phase AC motor 21 A at 100/120 V rated value 2 hp • for single-phase AC motor - at 200/280 V rated value 10 hp at 200/280 V rated value 10 hp at 200/280 V rated value 10 hp at 4575600 V rated value 2 hp		1 faulty switching per 100 million (17 V, 1 mA)		
 at 4800 Vrated value 27 A at 800 Vrated value 27 A yielded mechanical performance [hp] for single-phase AC motor at 230 Vrated value 5 hp for 3 phase AC motor at 20028 Vrated value 10 hp at 20028 Vrated value 20 hp at 800 Vrated value at 800 Vrate 400 Vrated value at 800 Vrate 400 Vrated value at 800 Vrated valu	UL/CSA ratings			
• at 600 V rated value 27 A vielded mechanics performance (hp) - • for single-phase AC motor - - at 200708 V rated value 2 hp • for 3-phase AC motor - - at 200708 V rated value 10 hp - at 200708 V rated value 20 hp - at 200708 V rated value 20 hp - at 400480 V rated value 20 hp contact rating of auxiliary contacts according to UL A000 / P600 Short-circuit protection of the main circuit - - with hype of coordination 1 required gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V, 80KA) - with type of assignment 2 required gG: 125A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V, 80KA) - for short-circuit protection of the auxiliary switch required required fastalizor/ mounting of the fase link - fastalizor/ mounting of the fase link - indight 102 mm with th side-by-side mounting Yes height 107 mm required spacing - with	full-load current (FLA) for 3-phase AC motor			
yielded machanical performance [hp] for single-phase AC motor - at 1201/120 V rated value - br 2200 V rated value - at 22002 V rated value - at 220/230 V rated value - at 420/480 V rated value - at 420/480 V rated value - at 450/480 V rated value - at 675/5000 V rated value - at 680/5000 - at 680 - at 680/5000 - at 680/5000 - at 680/5000 - at 680 - at 680	 at 480 V rated value 	27 A		
if or single-phase AC motor	 at 600 V rated value 	27 A		
	yielded mechanical performance [hp]			
	 for single-phase AC motor 			
• for 3-phase AC motor - at 200/208 V rated value 10 hp - at 200/208 V rated value 10 hp - at 450/480 V rated value 20 hp - at 450/480 V rated value 20 hp - at 575600 V rated value 25 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection Gesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) • for short-circuit protection of the auxiliary switch required scalar and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface	— 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		
contact rating of auxiliary contacts according to UL A600 ¹ / 6600 Short-circuit protection of the main circuit • 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,00kA) - with type of assignment 2 required gG: 50A (690V,100kA), aM: 50A (690V,100kA), BS88: 50A (415V, 80kA) • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions +180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting +780° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting +60 mm +60 mm +100 mm -60 wards +100 mm -60 wards +60 mm -60 wards -60 mards -60 mards	— at 460/480 V rated value	20 hp		
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, 300A) • for short-circuit protection of the auxiliary switch required mounting position +/180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5" on vertical mounting surface fastening method • side-by-side mounting + equired with depth 102 mm width - downwards - forwards	— at 575/600 V rated value	25 hp		
design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80KA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) rectain protection possible on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backward by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forwards and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forwards and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forwards and backwards by 4-/ 22.5' on vertical mounting by 500000000000000000000000000000000000	contact rating of auxiliary contacts according to UL	A600 / P600		
design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80KA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) rectain protection possible on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backward by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forward and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forwards and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forwards and backwards by 4-/ 22.5' on vertical mounting surface: can be tilted forwards and backwards by 4-/ 22.5' on vertical mounting by 500000000000000000000000000000000000	Short-circuit protection			
- with type of coordination 1 required gG: 125A (690V, 100kA), aM: 50A (690V, 100kA), BS8B: 125A (415V, 80kA) - with type of assignment 2 required gG: 50A (690V, 100kA), aM: 25A (690V, 100kA), BS8B: 50A (415V, 80kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions -/180' rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; scae be tilted forward and backward by +/-22.5' on vertical mounting surface; scae be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forward and backward by +/-22.5' on vertical mounting surface; can be tilted forwards in the side scae was nap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes • with side-by-side mounting Yes • onwards 10 mm - forwards 10 mm - onwards 10 mm - onwards 10 mm - at the side 6 mm - onwards 10 mm - at the side 6 mm - onwards 10 mm - onwards 10 mm - at the	-			
(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 y-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface wand snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes height 102 mm width 45 mm depth 107 mm required spacing omm • with side-by-side mounting 10 mm - forwards 10 mm - giverds 10 mm - forwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - of wards 10 mm - at the side 6 mm - of wards 10 mm - at the side 6 mm - of wards 10 mm </td <td></td> <td>aG: 125A (690V 100kA) aM: 50A (690V 100kA) BS88: 125A</td>		aG: 125A (690V 100kA) aM: 50A (690V 100kA) BS88: 125A		
- 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 +/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 102 mm width 45 mm depth 107 mm - upwards 10 mm - upwards 0 mm - forwards 10 mm - upwards 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 1	with type of obordination in required	o		
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions +/-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 102 mm width 45 mm depth 107 mm required spacing - • with side-by-side mounting - - forwards 10 mm - growards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm <	- with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,		
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mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes height 102 mm width 45 mm depth 107 mm required spacing 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 6 mm <td></td> <td>,</td>		,		
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60715 • side-by-side mounting Yes height 102 mm width 45 mm depth 107 mm required spacing - • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 6 mm - downwards <td< td=""><td>required Installation/ mounting/ dimensions</td><td>gG: 10 A (500 V, 1 kA)</td></td<>	required Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)		
height 102 mm width 45 mm depth 107 mm required spacing	required Installation/ mounting/ dimensions mounting position	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
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with side-by-side mounting forwards upwards downwards downwards downwards at the side for grounded parts for grounded parts forwards upwards for main at the side for main for wards for wards for main downwards for main current circuit 	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm		
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 for grounded parts forwards upwards upwards mm at the side downwards 0 mm downwards 10 mm for live parts for wards mm upwards 0 mm mm in upwards 0 mm in upwards 0 mm mm methyda mm methyda mm methyda mm mm	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - - forwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 10 mm 10 mm 10 mm		
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- at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm 10 mm 0 mm		
downwards10 mm• for live parts10 mm forwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
• for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at upwards — at upwards — oforwards — at upwards — upwards — upwards — upwards — upwards — upwards — upwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm		
upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm		
	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • downwards — at the side — downwards — for live parts	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
— at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — forwards — at the side — forwards — at the side — for upwards — at the side — for upwards — for upwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		
Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for wards — at the side — forwards — at the side — forwards — at the side — forwards — upwards — for live parts — forwards — upwards — upwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards • at the side — forwards — at the side — forwards — at the side — forwards — at the side — downwards • for live parts — forwards — upwards — downwards • for wards — downwards	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		
for main current circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — a the side — downwards — a the side — downwards — a the side — downwards • for live parts — forwards • for live parts — forwards — upwards — upwards — downwards — a the side — downwards — a the side	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		
1 0	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		
tor auxiliary and control circuit spring-loaded terminals	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards • for live parts — forwards • downwards • for live parts — at the side — downwards • at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		
	required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for lowards — at the side — downwards • for live parts — forwards • for live parts — forwards • downwards • for live parts — forwards — at the side — downwards • for live parts — at the side — downwards — at the side — the side — the side — the side — the side	gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 102 mm 45 mm 107 mm 10 mm		

	for auxiliary contacts		Spring-type terminal		
of magnet contracted		formain	Spring-type terminal	S	
contacts	e conductor cross-sections	s for main			
solid			2x (1 10 mm²)		
 solid or strai 	nded		2x (1 10 mm ²)		
	ed with core end processir	ng	2x (1 6 mm²)		
-	ed without core end proces	-	2x (1 6 mm ²)		
-	ductor cross-section for	-			
 solid 			1 10 mm²		
 stranded 			1 10 mm²		
 finely strand 	ed with core end processir	ng	1 6 mm²		
 finely strand 	ed without core end proces	ssing	1 6 mm²		
connectable con contacts	ductor cross-section for	auxiliary			
 solid or strai 	nded		0.5 2.5 mm ²		
 finely strand 	ed with core end processir	ng	0.5 1.5 mm²		
 finely strand 	ed without core end proces	ssing	0.5 2.5 mm ²		
	ble conductor cross-sect	ions			
 for auxiliary 	contacts				
— solid or	stranded		2x (0.5 2.5 mm ²)		
	tranded with core end proc	•	2x (0.5 1.5 mm ²)		
— finely s	tranded without core end p	rocessing	2x (0.5 2.5 mm ²)		
 at AWG cab 	les for auxiliary contacts		2x (20 14)		
AWG number as section	coded connectable cond	uctor cross			
 for main con 	itacts		18 8		
 for auxiliary 	contacts		20 14		
Safety related data	1				
product function					
•	ct according to IEC 60947-	4-1	Yes		
	h demand rate according t		450 000		
proportion of dar	-				
	nand rate according to SN	31920	40 %		
	mand rate according to SN		73 %		
-	ith low demand rate accord		100 FIT		
T1 value for proof IEC 61508	test interval or service life	according to	20 a		
protection class 60529	IP on the front according	to IEC	IP20		
touch protection	on the front according to	IEC 60529	finger-safe, for vertic	al contact from the front	
suitability for use	9				
 safety-relate 	ed switching OFF		Yes		
Certificates/ appro	vals				
General Product					
	Confirmation	(m)	Ē	KC	rnr
		<u>m</u>	জ		tHL
C24			UL		
	Eugetione!				
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	
A	Type Examination	~ ~		Type Test Certific-	Special Test Certific-
<u>/\/</u>	<u>Certificate</u>	して		ates/Test Report	ate
RCM		EG-Konf.			
1.14				-	



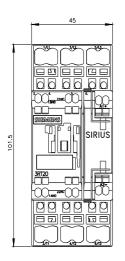
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2NF30&lang=en

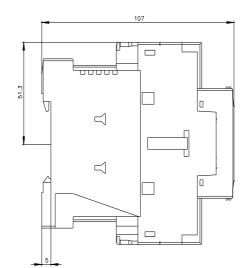
Characteristic: Tripping characteristics, I²t, Let-through current

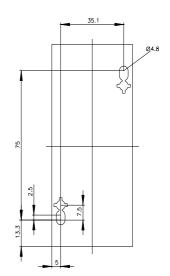
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2NF30/char

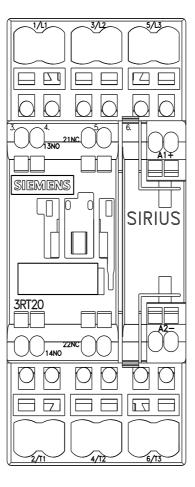
Further characteristics (e.g. electrical endurance, switching frequency)

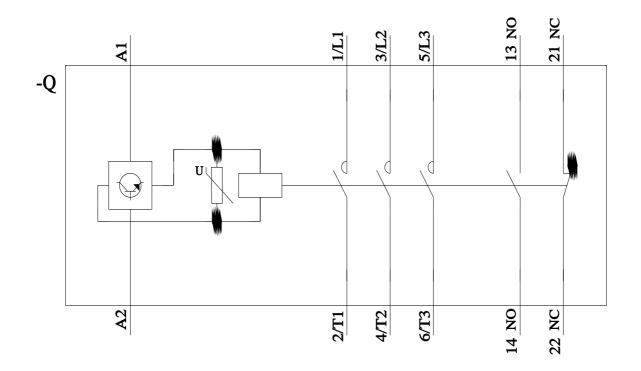
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2NF30&objecttype=14&gridview=view1











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2/10/2023 🖸