SIEMENS

Data sheet

3RT2028-1AG60



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 100 V AC, 50 Hz / 100-110 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name SIRUS product designation Power contactor product type designation SRT2 canaral tachulal data S0 size of contactor S0 product stansion No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current size of contactor • at AC in hot operating state 9.6 W • at AC in hot operating state per pole 3.2 W • without load current share typical 10.5 W insultation voitage 680 V • of main circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 10 00 V • at AC		
product type designation 3RT2 General technical data	product brand name	SIRIUS
General technical data S0 size of contactor S0 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 9.6 W • at AC in hot operating state 9.6 W • without load current share typical 10.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64V • of main circuit with degree of pollution 3 rated value 64V • of main circuit rated value 64V • of auxiliary circuit rated value 64V • at AC 8.3g / 5 ms, 5.3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxi	product designation	Power contactor
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• at AC in hot operating state per pole 3.2 W • withbut load current share typical 10.5 W insulation voltage 60 min circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 60 KV • of main circuit with degree of pollution 3 rated value 68 V • of auxiliary circuit rated value 6 kV • 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) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000	power loss [W] for rated value of the current	
• without load current share typical 10.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 8.3g / 5 ms, 5.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms • of contactor tytical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2	 at AC in hot operating state 	9.6 W
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• 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 6 • of main 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 8,3g / 5 ms, 5,3g / 10 ms • at AC 8,3g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 -25 +60 °C • during operation -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • felative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	 without load current share typical 	10.5 W
• of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • 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 6 kJ • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary witch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -45 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C	insulation voltage	
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• 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 400 V • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 8,3g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 2000 m ambient temperature - • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minum 10 % 95 % 95 %	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
• 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 400 V • 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 10 000 000 • 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 2 000 m 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 at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	surge voltage resistance	
maximum permissible voltage for protective separation between 400 V coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 8,3g / 5 ms, 5,3g / 10 ms • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 0000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -55 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 %	 of main circuit rated value 	6 kV
coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse	 of auxiliary circuit rated value 	6 kV
• at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 0 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 40 min circuit		400 V
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• at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 0 000 000 • 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	• at AC	8,3g / 5 ms, 5,3g / 10 ms
mechanical service life (operating cycles) 10 000 000 • 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 95 % Main circuit Main circuit	shock resistance with sine pulse	
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auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % Main circuit 95 %	 of contactor typical 	10 000 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 %		5 000 000
Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m • 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 %	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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	reference code according to IEC 81346-2	Q
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 4	Substance Prohibitance (Date)	10/01/2009
ambient temperature -25 +60 °C • 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	Ambient conditions	
• during operation • during storage ·25 +60 °C ·55 +80 °C ·clative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	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	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 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	31.5 A
• at AC-6a	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	30.8 A 30.8 A
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	21 A
• at AC-6a	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	21.4 A
— up to 690 V for current peak value n=30 rated value	21 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-3	11 MA
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 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 400 V rated value	
at 400 V rated valueat 690 V rated value	6 kW 10.3 kW
at 400 V rated value at 690 V rated value operating apparent power at AC-6a	10.3 kW
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 	10.3 kW 12.2 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	10.3 kW 12.2 kVA 21.3 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a 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 	10.3 kW 12.2 kVA 21.3 kVA 26.6 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a 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 up to 690 V for current peak value n=20 rated value 	10.3 kW 12.2 kVA 21.3 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a 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 up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a	10.3 kW 12.2 kVA 21.3 kVA 26.6 kVA 25 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a 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 up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	10.3 kW 12.2 kVA 21.3 kVA 26.6 kVA 25 kVA 8.1 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a 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 up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	10.3 kW 12.2 kVA 21.3 kVA 26.6 kVA 25 kVA 8.1 kVA 14.2 kVA
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a 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 up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	10.3 kW 12.2 kVA 21.3 kVA 26.6 kVA 25 kVA 8.1 kVA 14.2 kVA 18.5 kVA
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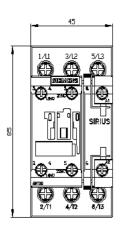
control supply voltage at AC	
• at 50 Hz rated value	100 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
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 instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
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	
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 100 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 220 V rated value at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	24.0
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	34 A 27 A
 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	34 A 27 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor	27 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	

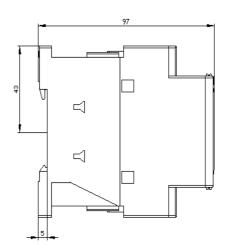
	e for 3 phase AC motor			
	 for 3-phase AC motor — at 200/208 V rated value 	10 hp		
		•		
context rating of auxiliary contacts according to UL AB00 / P800 Short circuit protection of the main circuit				
Short-Cruck protection design of the fuse link - with type of conditation 1 required - with type of conditation 1 required - with type of assignment 2 required - with table type of assignment 2 required - stath-type of assignment 2 required - stath-type of assignment 2 required - with table type of assignment 2 required - of type area - of type area				
design of the face link • for short-Encut protection of the main circuit		A00071000		
- for short-circuit protection of the main circuit. - with type of assignment 2 required - with a sole mounting - with a sole -				
- with type of consignment 2 required of a storic of the auxiliary switch require g6: 50, (600V, 100kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 50, (600V, 100kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA) g7, (14V, 14V, 14V, 14V, 14V, 14V, 14V, 14V,	-			
- with "pee of assignment 2 required of a SAA (680V, 100AA), adv. 25A (690V, 100AA), BSB8: 50A (415V, 80AA) gG: 10 A (500 V, 1 BA) mounting position belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and belower and samp-or mounting surface; can be filted forward and - forwards - forwards - downards - downards - downards - of a sub filted polited - downards - downards - forwards - forwards - downards - downar	-	aG: 1254 (690V/ 100k4) aM: 504 (690V/ 100k4) BS88: 1254 (415V/ 80k4)		
• for short-struit protection of the auxiliary switch: required installation (mounting) definerations gG: 10 A (500 V, 1 kA) Installation (mounting) settion +-160° rotation possible on vertical mounting surface; can be tilted forward and backward by +-22.5° on vertical mounting surface; e side-by-side mounting Set				
Instalation/mounting/dimensions				
meuring position +i-180° rotation possible on vertical mounting surface: solve by side mounting festening method screw and snap-on mounting onto 35 mm DIN reli according to DIN EN 60715 • side by side mounting Yes beight 85 mm vidth 45 mm depth 97 mm required spacing 97 mm • with side by side mounting 10 mm - upwards 10 mm - domwards 10 mm - upwards 10 mm		30.1077(000 4, 1107)		
Image: Second		+/-180° rotation possible on vertical mounting surface: can be tilted forward and		
• side-by-side mounting Yes height 85 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting - - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - for grounded parts - - for grounded parts 0 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for and corntol circuit screw-				
height 86 mm width 45 mm depth 97 mm required spacing 97 mm • with side by-side mounting 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - drawads 10 mm - drawaliary and control circuit <t< td=""><td>fastening method</td><td>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</td></t<>	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
width 45 mm depth 97 mm required spacing 97 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - of majnet coll Screw-type terminals type of connectable conductor cross-sections for main contacts - solid scl - 2.5 mm ²), 2	 side-by-side mounting 	Yes		
depth 97 mm required spacing 97 mm • with side by-side mounting - forwards - upwards 10 mm - upwards 10 mm - at the side 0 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - downwards 10 mm - of rauxilary and control circuit screw-type terminals * of magnet coil Screw-type terminals • of magnet coil Screw-type terminals !ype of olectricul for auxilary contacts Screw-type terminals • solid or stranded 1 10 mm ² • finely stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 10 mm ²)	height	85 mm		
required spacing • with side-by-side mounting forwards 10 mm upwards 10 mm downwards 0 mm downwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm upwards 10 mm forwards 10 mm downwards 10 mm <td>width</td> <td>45 mm</td>	width	45 mm		
with side-by-side mounting forwards forwards forwards forwards forwards downwards downwards downwards downwards forwards downwards	depth	97 mm		
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at the side0 mm• for grounded parts10 mm forwards10 mm upwards10 mm at the side6 mm at the side10 mm downwards10 mm downwards10 mm forwards10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm at the side6 mmConnections/ Terminals6 mmConnections/ Terminals5 crew-type terminals• for axiliary and control circuitscrew-type terminals• for axiliary and control circuitscrew-type terminals• of magnet collScrew-type terminals• of axiliary and control circuitscrew-type terminals• of axiliary and control circuitscrew-type terminals• of axiliary and control circuitscrew-type terminals• of axiliary contactsscrew-type terminals• of axiliary contactsscrew-type terminals• of add or stranded2x (1 25 mm²), 2x (25 10 mm²)• inclu stranded with core end processing2x (1 25 mm²), 2x (25 10 mm²)• of inclu stranded with core end processing1 10 mm²• inclu stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• of axiliary contacts 00 mm²• of axiliary contacts 00 mm²• of axiliary contacts 00 mm²• inley stranded with core end processing				
• for grounded parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 5 mm Connections/ Terminals 5 mm Vpe of electrical connection 6 mm • for awiliary and control circuit screw-type terminals • of maulilary contacts Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • solid or stranded 1 10 mm ² • onductor cross-section for main contacts 6 may think core end processing • solid or stranded 1 10 mm ² • finely stranded with core end processing 0.5 2.5 mm ² , 2x (0.75 2.5 mm ²) • finely stranded with core end processing<				
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - for live parts 10 mm - powards 10 mm - gowards 10 mm - downwards 10 mm - gowards 10 mm - at the side 6 mm Connectable Conductor locicult screw-type terminals of a magnet coll Screw-type terminals type of connectable conductor cross-sections for main contacts screw-type terminals • of anganet coll 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • olid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • olid or stranded 1 10 mm ² • finely stranded with core end processing 1 10 mm ² •		0 mm		
- upwards 10 mm - at the side 6 mm - downwards 10 mm of live parts 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm Connections/Terminals 6 mm connationation circuit screw-type terminals of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts screw-type terminals of magnet coil 2x (1 25 mm ²), 2x (2.5 10 mm ²) e solid 1 10 mm ² e stranded 1 10 mm ² e solid or stranded 0.5 2.5 mm ² of magnet coil contacts 0.5 2.5 mm ² e finely stra	 for grounded parts 			
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section	•			
• for main contacts 16 8				
	for main contacts	16 8		

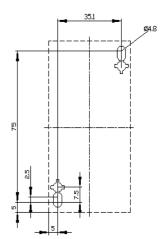
 for auxiliary cor 	ntacts		20 14		
Safety related data			20		
product function		_			
•	according to IEC 600.47.4.4		Yes		
	according to IEC 60947-4-1				
B10 value with high demand rate according to SN 31920		131920	450 000		
proportion of dangerous failures					
 with low deman 	nd rate according to SN 319	20	40 %		
 with high dema 	and rate according to SN 319	920	73 %		
failure rate [FIT] with I	low demand rate according	to SN 31920	100 FIT		
T1 value for proof test 61508	t interval or service life acco	rding to IEC	20 a		
protection class IP of	on the front according to II	EC 60529	IP20		
touch protection on	the front according to IEC	60529	finger-safe, for vertical contact	from the front	
suitability for use					
 safety-related s 	witching OFF		Yes		
Certificates/ approvals	s				
General Product Ap	provai				
SP EM	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Co	onformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uts	RINA	RMRS
other			Railway	Environment	
<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations	
Further information					
	d to exit the Russian mark				
Siemens is working Please contact your lo EAC relevant market Information on the p https://support.industr	(other than the sanctioned E packaging y.siemens.com/cs/ww/en/vie wnloadcenter (Catalogs, E	ent EAC certificate tatus of validity of th EAEU member state ew/109813875	es. le EAC certification if you inten	d to import or offer to sup	ply these products to an
Industry Mall (Online	e ordering system) iemens.com/mall/en/en/Cata	alog/product?mlfb=3	RT2028-1AG60		
http://support.automatics Service&Support (M		acteristics, FAQs,	ang=en&mlfb=3RT2028-1AG6 .)	<u>0</u>	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1AG60&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AG60/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1AG60&objecttype=14&gridview=view1











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