SIEMENS

Data sheet

3RT2027-1AM20



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

product brand name SIRUS product brand designation Power contactor product type designation SR12 Canazi technical data S0 product stension No • function module for communication No • auxiliary switch Yes power loss [V] for rated value of the current 5.3 W • at AC in hot operating state 6.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 2.7 W insultation voitage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 680 V • of auxiliary circuit rated value 680 V • of auxiliary circuit rated value 690 V • of auxiliary circuit rated value 690 V • of auxiliary circuit rated value 690 V • of auxiliary circuit rated value 61 V • of auxiliary circuit rated value 61 V • of auxiliary circuit rated value 61 V		
product type designation 3RT2 Ganeral 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 • at AC in hot operating state C.3 W • at AC in hot operating state proje 2.3 W • without load current share typical 680 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 680 V • of main circuit rated value 6 kV • of main circuit with degree of pollution 3 rated value 640 V • of auxiliary circuit rated value 6 kV • 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 auxilia	product designation	Power contactor
size of contactor S0 product extension • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state per pole 2.3 W • at AC in hot operating state per pole 2.3 W • of main circult with degree of pollution 3 rated value 690 V • of main circult with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 64 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit trated value 64 V • of auxiliary circuit rated value 64 V • of auxiliary subten biologit po EN 60947-1 400 V shock resistance with sine pulse 13.5g / 5 ms, 6,3g / 10 ms • at AC 13.5g / 5 ms, 6,3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electronically optimized 10	product type designation	3RT2
product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.3 W • at AC in hot operating state prole 2.3 W • without load current share typical 2.7 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 64V • of main circuit rated value 6 kV • of main contacts according to EN 60947-1 5 kock resistance at rectangular impulse • at AC 13.5g / 5 ms, 8.3g / 10 ms shock resistance with sine pulse 10 000 000 • 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 1	General technical data	
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et AC in hot operating state per pole et and a current share typical et and in circuit with degree of pollution 3 rated value et of auxiliary circuit with degree of pollution 3 rated value et of auxiliary circuit with degree of pollution 3 rated value et of auxiliary circuit with degree of pollution 3 rated value et of auxiliary circuit with degree of pollution 3 rated value et of auxiliary circuit with degree of pollution 3 rated value et of auxiliary circuit rated value et of auxiliary switch block typical for ontactor typical et of the contactor with added auxiliary switch block typical for ontactor with added	power loss [W] for rated value of the current	
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Insulation voltage 690 V • 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 680 V • 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 8,3g / 5 ms, 5,3g / 10 ms • at AC 8,3g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • of contactor life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature - - • during storage -25 +60 °C • during storage -25 .	 at AC in hot operating state per pole 	2.3 W
• 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 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 kV • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 6 00 000 • 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 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 • elative humidity minimum 10 % 95 % 95 %	 without load current share typical 	2.7 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 • at AC 8.3g / 5 ms, 5.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms • 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) 10 001/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage <th>insulation voltage</th> <th></th>	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) 0 000 000 • 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 minimum 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 • 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 Amblent conditions 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 %	surge voltage resistance	
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 10 000 000 efference 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 • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor (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 %	 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 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 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 4000000000000000000000000000000000000		400 V
shock resistance with sine pulse interview • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) interview • 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	shock resistance at rectangular impulse	
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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 +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	
• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	13,5g / 5 ms, 8,3g / 10 ms
 of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical 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 -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum maximum 	mechanical service life (operating cycles)	
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 % Main circuit 95 %		5 000 000
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 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 -25 +60 °C during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 g5 % 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
maximum 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	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
 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 limited to 60 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 limited to 60 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 162 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 limited to 60 s switching at zero current maximum mo-load switching frequency at AC 	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
 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency 	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 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h
 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 limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 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 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h
 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 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 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 750 1/h
 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 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 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 750 1/h 750 1/h
 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 limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3 maximum at AC-3 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 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 750 1/h 750 1/h
 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 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 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 750 1/h 750 1/h

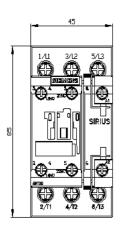
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	208 V
• at 60 Hz rated value	208 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
● at AC	8 40 ms
opening delay	
• at AC	4 16 ms
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	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	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 27 A
yielded mechanical performance [hp]	
yielded mechanical performance [hp] • for single-phase AC motor	27 A
yielded mechanical performance [hp]	

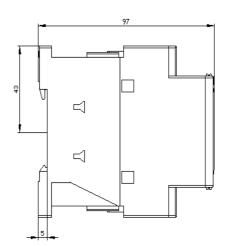
	— at 230 V rated value	5 hp
all 20230 V ratio value10 hp all 57500 V ratio value20 hpcontact rating of auxiliary contacts according to U.20 hpAddor Patter of Contact according to U.20 hpdesign of the fuse link will type of contracts according to U.96 550 (680V, 100A), abl 550 (680V, 100A), BS8E 126A (15V, 80A) will type of assement 2 required96 550 (680V, 100A), abl 550 (680V, 100A), BS8E 126A (15V, 80A) will type of assement 2 required96 550 (680V, 100A), abl 550 (680V, 100A), BS8E 126A (15V, 80A) will type of assement 2 required96 550 (650V, 14A) will type of assement 2 required96 550 (650V, 14A) will type of assement 2 required96 550 (650V, 14A) will type of assement 2 required96 550 (650V, 14A) will type of assement 2 required96 550 (650V, 14A) forwards97 me forwards10 mm forwards10 mm	•	
		•
contact rating of auxiliary contacts according to UL A600 / P000 Start dricell protection Gesign of the task link Gesign of the task link is in the main circuit.		
Short of the fuse link even to circuit protection of the main circuit - with type of condination 1 required - with type of condination - with type of type		
design of the fue link (is star-circul practed or the main circul (is char-circul practed mounting surface: (is char surface) (is char surface)		A600 / P600
for short-oraci protocon of the main circuit	Short-circuit protection	
- with type of conditation 1 required - with type of assignment 2 required - with side-by-side mounting - with side - with si	design of the fuse link	
- with spe of assignment 2 required • or short-circuit protection of the auxiliary switch required * 4-180° rotation possible on vertical mounting surface; can be tilted forward and pace 2 assignment 2 assignme	-	
• (or short-circuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position 96: 10 A (500 V, 1 KA) Installation/mounting/dimensions mounting position +/-160" rotation possible on vertical mounting surface; can be filled forward and backward by +/-2.25" on vertical mounting surface; a disc-by-side mounting fastening method 568 mm • disc-by-side mounting 45 mm • disc-by-side mounting 45 mm • disc-by-side mounting 45 mm • disc-by-side mounting - • with side-by-side mounting - • downwards 10 mm • upwards 10 mm • downwards	 — with type of coordination 1 required 	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
Installation/mounting/dimensions -/-10% moniting position -/-10% fastening method	 — with type of assignment 2 required 	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
meanting position +/180° rotation possible on vertical mounting surface. fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • olde by side mounting Yes meanting method Yes • olde by side mounting Yes depth 97 mm required spacing 97 mm • with side-by-side mounting 10 mm - upwards 10 mm - downwards 10	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
deciver with side with view and snape on mounting surface side by side mounting Yes height 48 mm depth 97 mm required spacing 97 mm - forwards 10 mm - downwards 00 mm - downwards 10 mm - downwards 00 mm - forwards 10 mm - downwards 10 mm - downwards<	Installation/ mounting/ dimensions	
• side-by-side mountingYeshoight68 mmwidth68 mmdepth97 mmrequired spacing97 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards10 mm- downwards10 mm- downwards10 mm- for yands10 mm- for yands10 mm- forwards10 mm- forwards50 mm- forwards10 mm- forwards50 mm- forwards10 mm- forwards10 mm- forwards50 mm- forwards10 mm- forwards50 mm- forwards50 mm- forwards50 mm- forwards50 mm- forwards50 mm- forwards50 mm- for main current for auxillary contacts <td>mounting position</td> <td></td>	mounting position	
bight 85 mm width 45 mm depth 97 mm required spacing 97 mm ewith side-by-side mounting 10 mm - hywards 10 mm - upwards 10 mm - downwards 00 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 00 mm <	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
with 45 mm depth 97 mm required spacing 97 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm </td <td> side-by-side mounting </td> <td>Yes</td>	 side-by-side mounting 	Yes
depth 97 mm required spacing 97 mm event side by-side mounting - - forwards 10 mm - upwards 10 mm - upwards 10 mm - of or grounded parts 0 mm - forwards 10 mm - of or grounded parts 0 mm - upwards 10 mm - upwards 10 mm - downwards Screw-type terminals for auxillary contacts Screw-type	height	85 mm
required spacing • with side-by-side mounting - (nywards - upwards 10 mm - upwards 0 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm - downwards 0 mm - downwards 10 ma	width	45 mm
• with side-by-side mountingI- forwards10 mm- downwards10 mm- downwards00 mm- downwards00 mm- downwards00 mm- for gounded parts10 mm- forwards10 mm- upwards00 mm- upwards00 mm- downwards00 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards6 mm- downwards00 mm- downwards5 come-type terminals- for and current circuitscrew-type terminals- for auxiliary contacts5 corew-type terminals- of or auxiliary contactsscrew-type terminals- for auxiliary contactsscrew-type terminals- format control circuitscrew-type terminals- solidx (1 25 mm²), 2x (2 5 10 mm²)- solid1 10 mm²- finely standed with core end processing1 10 mm²- finely standed with core end processing5 25 mm², 2x (0 75 25 mm²)- for auxiliary contacts5 25 mm², 2x (0 75 25 mm²)- finely standed with core end processing5 25 mm², 2x (0 75 25 mm²)- finely standed with core end processing5 25 mm², 2x (0 75 25 mm²)- finely standed with core end processing5 25 mm², 2x (0 75 25 mm²)- finely st	depth	97 mm
forwards10 mm upwards10 mm upwards10 mm at the side0 mm at the side0 mm for grounded parts10 mm upwards10 mm upwards10 mm upwards10 mm dt the side6 mm downwards10 mm downwards10 mm downwards10 mm forwards10 mm downwards10 mm downwards5 crew-type terminals downwards5 crew-type terminals for auxiliary contacts2x (1 25 mm ³) x (2 5 10 mm ³) solid1 10 mm ³ solid1 10 mm ³ solid with core end processing2x (1 25 mm ³) x (2 5 10 mm ³) solid or stranded1 10 mm ³ solid or stranded with core end processing0 5 25 mm ³ for auxiliary co	required spacing	
upwards10 mm downwards00 mm at the side00 mm forgrounded parts00 mm forwards10 mm upwards00 mm upwards00 mm downwards00 mm downwards00 mm downwards10 mm downwards10 mm forwards10 mm forwards10 mm downwards10 mm downwards10 mm downwards00 mm downwards00 mm downwards00 mm downwards5 mm downwards2x (1 25 mm ²), 2x (2.5 10 mm ²) for waliary contacts5 x (2 10 mm ²) forwards with core end processing2x (1 25 mm ²), 2x (2.5 10 mm ²) solid or stranded1 10 mm ² forwards with core end processing5 25 mm ² solid or stranded5 25 mm ² , 2x (0.75 25 mm ²) forwards down core end proc	 with side-by-side mounting 	
- downwards 0 mm - at the side 0 mm - for grounded parts 0 mm - forwards 10 mm - upwards 0 mm - upwards 0 mm - downwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - for live parts - - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 50 mm - downwards 10 mm - downwards 50 mm - of rauxiliary and control circuit sorew-type terminals of rauxiliary and control circuit sorew-type terminals solid or stranded 2x (1 25 mm ²), 2x (2.5 10 mm ²)	— forwards	10 mm
at the side0 mm• for grounded parts0- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- for key arts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 crew-type terminals- at the side6 mmConnections/ Terminalsscrew-type terminals- for and no current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- of auxiliary contactsscrew-type terminals- of auxiliary contactsscrew-type terminals- of or auxiliary contact	— upwards	10 mm
• for grounded parts·- forwards10 mm- upwards10 mm- upwards6 mm- downwards10 mm- downwards10 mm- for live parts forwards10 mm- upwards10 mm- downwards0 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 crew-type terminals- downwards5 crew-type terminals- domtard control circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- of magnet coll5 crew-type terminals- of magnet coll5 crew-type terminals- of magnet coll2 x (1 25 mm²), 2x (2.5 10 mm²)- solid or stranded2 x (1 25 mm²), 2x (2.5 10 mm²)- solid or stranded1 10 mm²- finely stranded with core end processing2 x (1 25 mm²), 2x (2.5 10 mm²)- solid or stranded1 10 mm²- solid or stranded1 10 mm²- solid or stranded5 2.5 mm²- solid or stranded2 x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded2 x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded with core end processing2 x (0.5	— downwards	10 mm
- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- downwards10 mm- downwards6 mmConnections/ Terminals5 mmYpe of electrical connectionscrew-type terminals• for auxiliary and control circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilscrew-type terminals• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded1 10 mm²• solid1 10 mm²• stranded1 10 mm²• stranded1 10 mm²• stranded0.5 2.5 mm², 2x (2.5 6 mm²), 1x 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts- solid or stranded• for	— at the side	0 mm
upwards10 mm at the side6 mm downwards00 mm forwards10 mm forwards10 mm upwards10 mm upwards10 mm downwards0 mm at the side6 mmConnections/connections/connections/connections/connection (arcuit)screw-type terminalsconnection (arcuit)screw-type terminalsconnectable conductor cross-sections for main contactsconnectable conductor cross-sections for main contactssolid or s	 for grounded parts 	
- at the side 6 mm - downwards 10 mm - for live parts 10 mm - for wards 10 mm - upwards 10 mm - downwards 6 mm - downwards 10 mm - at the side 6 mm - for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coll Screw-type terminals • solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • solid or stranded 1 10 mm ² • stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • solid or stranded 1 10 mm ² • solid or stranded 1 10 mm ² • solid or stranded 0.5 2.5 mm ² , 2x (0.7 5 2.5 mm ²) • for auxiliary contacts 0.5 2.5 mm ² , 2x (0.7 5 2.5 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.7 5 2.5 mm ²)	— forwards	10 mm
downwards10 mm• for live parts10 mm forwards10 mm upwards10 mm downwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet collScrew-type terminals• of magnet coll2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded1 10 mm²• solid or stranded1 10 mm²• solid or stranded1 10 mm²• solid or stranded0.5 2.5 mm², 2x (2.5 6 mm²), 1x 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• for auxiliary contacts0.5 2.5 mm², 2x (0.75 2.5 mm²)• for auxiliary contacts 50 m², 2x (0.75 2.5 mm²)• for auxiliary contacts 50 m², 2x (0.75 2.5 mm²)• for auxiliary contacts 50 mm², 2x (0.75 2.5 mm²)• for auxiliary contacts 50 mm², 2x (0.75 2.5 mm²)• for auxiliary contacts 2.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts 50 m², 2x (0.75 2.5 mm²)• for auxilia	— upwards	10 mm
• for live partsImage: conservence on the solution of	— at the side	6 mm
- forwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- at the side6 mmConnections/ TerminalsScrew-type terminalsscrew-type terminalsscrew-type terminalsscrew-type terminalsscrew-type terminalsof magine coliscrew-type terminalsscrew-type terminalsscrew-type terminalsof magine coliscrew-type terminalssolidsolidsolidsolidstrandedstrandedsolidstrandedsolidstrandedsolid or strandedstranded with core end processingstranded with core end processingsolid 1 10 mm²stranded with core end processingsolid 1 10 mm²solid 1 10 mm²solid 1 10 mm²solid 2 2.5 mm²solid 2 2.5 mm²strandedsolid 3 2.5 mm²solid 3 2.5 mm²stranded with core end processing 3 2.5 mm²stranded 3 2.5 mm²stranded 3 2.5 mm²stranded 3 2.5 mm²<	— downwards	10 mm
	• for live parts	
- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of one ctable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid or stranded1 10 mm²• solid or stranded0.5 2.5 mm², 2x (2.5 6 mm²), 1x 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75	— forwards	10 mm
at the side6 mmConnections/ Terminalstype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid1 10 mm²• stranded1 10 mm²• solid or stranded with core end processing0.5 2.5 mm²• solid or stranded with core end processing0.5 2.5 mm²• solid or stranded with core end processing0.5 2.5 mm²• solid or stranded with core end processing0.5 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 contacts-• of or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2	— upwards	10 mm
Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts Screw-type terminals • solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid or stranded 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm²) • finely stranded with core e	— downwards	10 mm
type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid or stranded1 10 mm²• solid or stranded1 10 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.6), 2x (18 14)	— at the side	6 mm
screw-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsscrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid1 10 mm²• solid1 10 mm²• stranded1 10 mm²• stranded with core end processing1 10 mm²• solid or stranded1 10 mm²• solid or stranded0.5 2.5 mm²)• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<	Connections/ Terminals	
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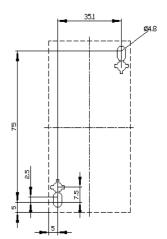
		10	0		
 for main contact 		16.			
 for auxiliary con 	ntacts	20.	14		
fety related data					
product function					
 mirror contact a 	according to IEC 60947-4-1	Yes			
•	ty-related switching OFF	Yes			
310 value with high de	emand rate according to SN	450	000		
proportion of danger	rous failures				
 with low deman 	d rate according to SN 319	20 40 %	6		
 with high deman 	nd rate according to SN 319	920 73 %	6		
ailure rate [FIT] with lo	ow demand rate according	to SN 31920 100	FIT		
T1 value for proof test 61508	interval or service life acco	ording to IEC 20 a	1		
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ouch protection on f	the front according to IEC	60529 finge	er-safe, for vertical contact	from the front	
ertificates/ approvals	5				
General Product App	proval				
		<u>Confirmation</u>	U	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	ormity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific ate
RCM	Type Examination Cer-	UK CA	CE EG-Konf.		Special Test Certific ate
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https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AM20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AM20&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AM20/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AM20&objecttype=14&gridview=view1











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