SIEMENS

Data sheet

3RT2017-2AK62



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00 $\,$

product brand name SiRUUS product designation Power contactor product yeld designation 3RT2 Central technical data size of contactor size of contactor S00 product yeld stansion No • tunction module for communication No • at AC in hot operating state 1.5 W • at AC in hot operating state proje 0.5 W • without load current stare typical 690 V • of main circuit with degree of pollution 3 rated value 690 V • of an indirger control with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of analing vicinuit with degree of pollution 3 rated value 64 V • of analing vicinuit with degree of pollution 3 rated value 64 V • of analing vicinuit rated value 64 V • of the contactor with abedres vicin abeotypical 300 00 V	and de	
product type designation SRT2 Central tochnical data	product brand name	SIRIUS
General technical data size of contactor \$00 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1.5 W • at AC in hot operating state 1.5 W • at AC in hot operating state per pole 0.5 W • without load current share typical 5.9 W 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 • of auxiliary circuit with degree of pollution 3 rated value 640 V • of auxiliary circuit rated value 64V • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 11.4g / 5 ms, 7.3g / 10 ms • at AC 11.4g / 5 ms, 7.3g / 10 ms mechanical service life (operating cycles) 5000 000	product designation	Power contactor
size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1.5 W • at AC in hot operating state per pole 0.5 W • without load current share typical 5.9 W Insulator voltage 690 V • of anal niciculi 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 64V • of auxiliary site per pole 7.3g / 5 ms, 7.3g / 10 ms shock resistance with sine pulse 11.4g / 5 ms, 7.3g / 10 ms • of the contactor with added auxiliary switch block typical 10 000 000 • of the	product type designation	3RT2
product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1.5 W • at AC in hot operating state 1.5 W • without load current share typical 5.9 W 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 • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance at rectangular impulse 11.4g / 5 ms, 7.3g / 10 ms • at AC 11.4g / 5 ms, 7.3g / 10 ms mechanical service life (operating cycles) 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	General technical data	
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• at AC in hot operating state 1.5 W • at AC in hot operating state per pole 0.5 W • without load current share typical 5.9 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 auxillary 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 6 kV • of main circuit rated value 6 kV • of auxillary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse - • at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse - • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) - • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to IEC 8136-2 Q Substance Prohibitance (Date) 10/01/2009 Anthort temperature <	auxiliary switch	Yes
• at AC in hot operating state per pole 0.5 W • without load current share typical 5.9 W insulation voltage 600 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 64 V • of auxiliary circuit rated value 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 11.4g / 5 ms, 7.3g / 10 ms • of the contactor with added electronically optimized 30 000 000 • of the contactor with added auxi	power loss [W] for rated value of the current	
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• at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • 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 %		400 V
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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 storage -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %		5 000 000
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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 %	reference code according to IEC 81346-2	Q
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 %	Substance Prohibitance (Date)	10/01/2009
ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum	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 maximum 95 %	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 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 %	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
Main aircuit	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 poles for main current circuit	3

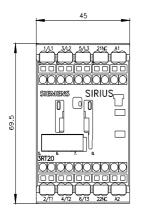
number of NO contacts for main contacts	3
	3
 operating voltage at AC-3 rated value maximum 	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	20.4
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
● at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
 — up to 690 V for current peak value n=20 rated value 	6.7 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	4.8 A
 — up to 400 V for current peak value n=30 rated value 	4.8 A
 — up to 500 V for current peak value n=30 rated value 	4.8 A
 — up to 690 V for current peak value n=30 rated value 	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

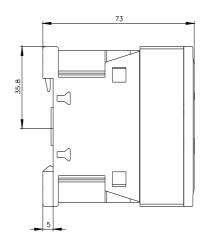
- at 24 V ratio value - at 34 V rat		
	— at 24 V rated value	20 A
		0.5 A
	— at 110 V rated value	0.15 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
• with 3 current paths in series at DC-3 at DC-3 20 - at 24 V rade value 20 - at 10 V rade value 20 - at 24 V rade value 20 - at 240 V rade value 22 - at 250 V rade value 22 - at 260 V rade value 53 - at 250 V rade value 55 - at 250 V rade value 25 - at 250 V rade value 28 - at 250 V for current pack value n=20 rated value 28 <td< td=""><td>— at 60 V rated value</td><td>5 A</td></td<>	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
	— at 220 V rated value	1.5 A
operating power at AC3 at AC3 at AC3 at AC3 bt AC3 bt AC3 cl 230 V rated value cl 250 V rated value cl 250 V rated value cl 230 V rated value cl 250 V rated value cl 250 V rated value cl 400 V for current peak value n=20 rated value cl 400 V for current peak value n=20 rated value cl 400 V for current peak value n=20 rated value cl 40 co V for current peak value n=20 rated value cl 40 co V for current peak value n=20 rated value cl 40 co V for current peak value n=30 rated value cl 40 co V for current peak value n=30 rated value cl 40 co V for current peak value n=30 rated value cl 40 co V for current peak value n=30 rated value cl 40 co V for current peak value n=30 rated value cl 40 co V for current peak value n=30 rated value cl 40 co V for current peak value n=30 rated value cl 40 co <licl 40="" co<="" li=""></licl>	— at 440 V rated value	0.2 A
• at 2G-3 - at 230 V rated value 3 KW at 230 V rated value 55 KW at 500 V rated value 55 KW at 230 V rated value 55 KW	— at 600 V rated value	0.2 A
	operating power	
	• at AC-3	
	— at 230 V rated value	3 kW
	— at 400 V rated value	5.5 kW
		5.5 kW
• at AC-3e 3 kW - at 230 V rated value 3 kW - at 600 V rated value 55 kW • at 400 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V for current peak value n=20 rated value 2 kW • up to 230 V for current peak value n=20 rated value 4 kVA • up to 600 V for current peak value n=20 rated value 8 kVA • up to 600 V for current peak value n=20 rated value 8 kVA • up to 600 V for current peak value n=30 rated value 3 kW • up to 600 V for current peak value n=30 rated value 3 kVA • up to 500 V for current peak value n=30 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 5 kVA • up to 500 V for current peak value n=30 rated value 5 kVA		
		3 kW
at 500 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC- 4 5.5 kW 4 at 400 V rated value 2 kW - at 630 V rated value 2.5 kW operating apparent power at AC-6a 2.8 kVA - up to 520 V for current peak value n=20 rated value 4.8 kVA - up to 500 V for current peak value n=20 rated value 5.5 kVA operating apparent power at AC-6a 2.8 kVA - up to 500 V for current peak value n=20 rated value 6.2 kVA - up to 500 V for current peak value n=20 rated value 8.4 kVA operating apparent power at AC-6a 1.9 kVA - up to 500 V for current peak value n=30 rated value 3.8 kVA - up to 500 V for current peak value n=30 rated value 4.1 kVA - up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 400 °C 20 A; Use minimum cross-section acc. to AC-1 rated value 0 * C imited to 1 s witching at zero current maximum 20 A; Use minimum cross-section acc. to AC-1 rated value 0 * A; Use minimum cross-section acc. to AC-1 rated value 20 A; Use minimum cross-section acc. to AC-1 rated value 0 * C 10 000 1/h 10 000 1/h 0 * C 10 000 1/h 10 000 1/h • at AC-1 maximum 750 1/h • at AC-2		
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• 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 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 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 • up to 500 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 • up to 500 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 • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current maximum • limited to 19 s switching at zero current maximum • limited to 19 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • ta C- • at AC- • at AC- •	• at 690 V rated value	2.5 kW
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• up to 690 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 1 s switching at zero current maximum filmited to 10 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum fol 1/h operating frequency • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 50 1/h • at AC-4 maximum 200 1/h • at AC-4 maximum zo 1/h Control circuit Control type of voltage of the control supply voltage AC control supply voltage at AC • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V	 up to 400 V for current peak value n=20 rated value 	4.9 kVA
operating apparent power at AC-6a 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 t kVA up to 590 V for current peak value n=30 rated value t kVA up to 590 V for current peak value n=30 rated value t kVA up to 590 V for current peak value n=30 rated value t kVA short-time withstand current in cold operating state up to 40°C limited to 1 s switching at zero current maximum limited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum t AC t AC-1 maximum t AC-1 maximum t AC-1 maximum t AC-2 maximum t AC-2 maximum t AC-3 maximum t AC-4 maximum t AC-4 maximum t AC-4 maximum t AC-4 maximum t AC t AC-4 maximum t AC t AC-4 maximum <lit ac-4="" li="" maximum<=""> t AC-4 maximum <l< td=""><td> up to 500 V for current peak value n=20 rated value </td><td>6.2 kVA</td></l<></lit>	 up to 500 V for current peak value n=20 rated value 	6.2 kVA
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• up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C - • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 0000 1/h operating frequency - - • at AC-3 maximum 750 1/h - • at AC-4 maximum 250 1/h - Control circuit/ Control - - type of voltage of the control supply voltage AC <td> up to 400 V for current peak value n=30 rated value </td> <td>3.3 kVA</td>	 up to 400 V for current peak value n=30 rated value 	3.3 kVA
short-time withstand current in cold operating state up to 40 °C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control AC • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V • operating range factor control supply voltage rated value of magnet coil at AC 120 V	• up to 500 V for current peak value n=30 rated value	4.1 kVA
40 °C • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 10 000 1/h • at AC-1 maximum 1000 1/h 1000 1/h • at AC-2 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control KC	 up to 690 V for current peak value n=30 rated value 	5.7 kVA
• limited to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum123 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 80 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• at AC0000 1/h• at AC-1 maximum10000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/hControl supply voltage at AC• at 60 Hz rated value110 V• at 50 Hz rated value110 V• at 60 Hz rated value120 V• operating range factor control supply voltage rated value of magnet coil at AC12	short-time withstand current in cold operating state up to	
• limited to 5 s switching at zero current maximum123 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency61 A; Use minimum cross-section acc. to AC-1 rated value• at AC10 000 1/hoperating frequency10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum10 V• at 50 Hz rated value110 V• at 60 Hz rated value120 V• operating range factor control supply voltage rated value of magnet coil at AC120 V	40 °C	
 Iimited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value Iimited to 30 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value Iimited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency at AC 10 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum 1000 1/h at AC-3 maximum 750 1/h at AC-3 maximum 750 1/h at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC at 60 Hz rated value 100 V at 60 Hz rated value 20 V 	 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
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• limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at AC 10 000 1/h operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum AC control circuit/ Control AC type of voltage of the control supply voltage AC • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V	 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency 10 000 1/h operating frequency - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 250 1/h type of voltage of the control supply voltage AC • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC 120 V	 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
• at AC10 000 1/hoperating frequency.• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumAC• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum10 V• at 50 Hz rated value110 V• at 60 Hz rated value120 V• operating range factor control supply voltage rated value of magnet coil at ACItel AC-A	 limited to 60 s switching at zero current maximum 	61 A; Use minimum cross-section acc. to AC-1 rated value
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• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlAC• control supply voltage at ACAC• at 50 Hz rated value110 V• at 60 Hz rated value120 V	operating frequency	
• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageACcontrol supply voltage at ACIn the second s	• at AC-1 maximum	1 000 1/h
• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/hControl circuit/ ControlACcontrol supply voltage at ACAC• at 50 Hz rated value110 V• at 60 Hz rated value120 Voperating range factor control supply voltage rated value of magnet coil at ACImage factor control supply voltage rated value of magnet coil at AC	• at AC-2 maximum	750 1/h
• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageACcontrol supply voltage at AC• at 50 Hz rated value110 V• at 60 Hz rated value120 Voperating range factor control supply voltage rated value of magnet coil at AC	• at AC-3 maximum	750 1/h
Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC Intervention • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC Intervention	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage AC control supply voltage at AC Image: Control supply voltage at AC • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC Imagnet coil at AC	• at AC-4 maximum	250 1/h
control supply voltage at AC 110 V • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC 120 V	Control circuit/ Control	
control supply voltage at AC 110 V • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC 120 V	type of voltage of the control supply voltage	AC
at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC		
• at 60 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC		110 V
operating range factor control supply voltage rated value of magnet coil at AC	• at 60 Hz rated value	120 V
• at 50 Hz 0.8 1.1	operating range factor control supply voltage rated value of	
	● at 50 Hz	0.8 1.1

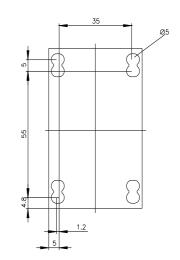
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	36 VA
• at 60 Hz	36 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5.9 VA
• at 60 Hz	5.9 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC 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	1A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	
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	11.0
at 480 V rated value	11 A 11 A
• at 600 V rated value yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
- at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	

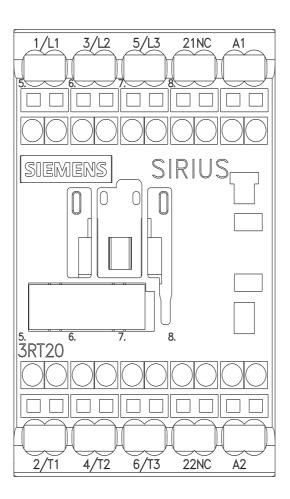
• for short-circuit protection of the main circuit	
 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-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	70 mm
width	45 mm
depth	73 mm
 required spacing with side-by-side mounting 	
- forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— 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
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
 of magnet coil 	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm²)
 solid or stranded 	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section	
for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes

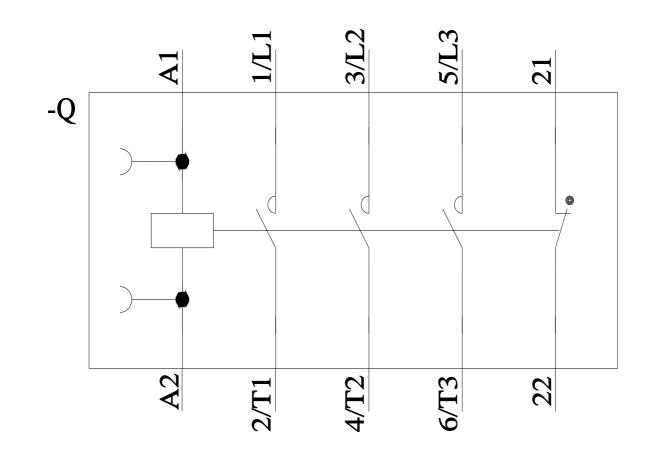
310 value with high d	lemand rate according to SN	31920 1 00	0 000		
proportion of dange	erous failures				
 with low deman 	nd rate according to SN 3192	20 40 %	, D		
 with high dema 	and rate according to SN 319	920 73 %	, D		
ailure rate [FIT] with	low demand rate according	to SN 31920 100	FIT		
1 value for proof tes	t interval or service life acco	rding to IEC 20 a			
rotection class IP of	on the front according to I	EC 60529 IP20			
ouch protection on	the front according to IEC	60529 finge	er-safe, for vertical contac	t from the front	
uitability for use					
 safety-related s 	switching OFF	Yes			
ertificates/ approval	s				
General Product Ap	oproval				
(SP)	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	rmity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate
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ABS	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA
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