SIEMENS

Data sheet

3RT2036-1AL20-1AA0



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

product brand name SIRIUS product designation Power contactor product type designation SRT2 central tachnical data state of contactor size of contactor S2 product oxtension No • auxiliary switch Yes opwort loss [W] for rated value of the current 1 • at AC in hot operating state 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W insultation voltage 680 V • of auxiliary circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 7 gy 10 ms stock resistance at rectangular impulse 11.8g / 5 ms, 7.4g / 10 ms	4/0 k/0	
product type designation 3RT2 Central technical data	product brand name	SIRIUS
General technical data size of contactor S2 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 12 W • ext AC in hot operating state per pole 4 W • without load current share typical 72 W insulation voltage 680 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 main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64 V • of auxiliary circuit rated value 11.8g / 5 ms, 7.4g / 10 ms machanical service life (operating cycles) 10 000 000 • of the contactor with added auxiliary switch block typical 100 00	product designation	Power contactor
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• of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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 maximum 95 %	mechanical service life (operating cycles)	
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 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		5 000 000
Substance Prohibitance (Date) 10/01/2014 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 95 % Main circuit	 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 -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	Substance Prohibitance (Date)	10/01/2014
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 maximum 95 % 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 maximum 95 % Main circuit 10 %	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	5
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	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	20 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	43.2 A
 — up to 400 V for current peak value n=20 rated value 	43.2 A
 — up to 500 V for current peak value n=20 rated value 	43.2 A
 — up to 690 V for current peak value n=20 rated value 	24 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	28.8 A
 — up to 400 V for current peak value n=30 rated value 	28.8 A
 — up to 500 V for current peak value n=30 rated value 	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	23 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
- at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 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 	

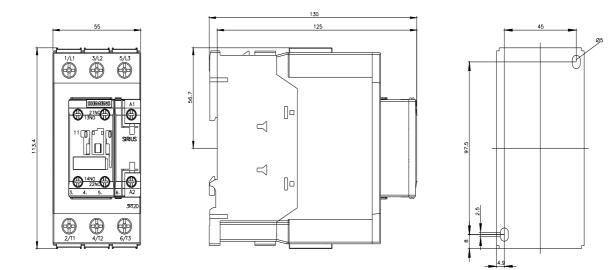
- alt 2V relativation 35 Å - alt 22V relativation 6 Å - alt 22V relativation 0.1 Å - alt 22V relativation 0.06 Å - alt 24V relativation 0.06 Å - alt 25V relativation 0.06 Å		
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value5A- at 100 V rated value5A- at 24 V rated value5A- at 24 V rated value5A- at 24 V rated value0.16A- at 240 V rated value0.16A- at 240 V rated value55A- at 240 V rated value56A- at 240 V rated value52 kW- at 250 V for current pack value n=20 rated value52 kW-	— at 440 V rated value	0.1 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	55 A
	— at 60 V rated value	45 A
- at 40 V rated value 0.27 A - at 60 V rated value 0.6 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 20 V rated value 56 A - at 20 V rated value 56 A - at 20 V rated value 0.8 A - at 400 V rated value 22 KW - at 400 V rated value 28 KW - at 400 V rated value 20 KW - at 600 V rated value 20 KW - at 600 V for c	— at 110 V rated value	25 A
	— at 220 V rated value	5 A
 with 3 current paths in series at DC-3 at DC-5 at 22 V rated value 55 A at 110 V rated value 55 A at 110 V rated value 55 A at 110 V rated value 56 A at 22 V rated value 57 A at 400 V rated value 58 A at 400 V rated value 59 A at AC-2 at 400 V rated value 50 A at AC-2 at 400 V rated value 50 V rated value 50	— 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	55 A
	— at 60 V rated value	55 A
	— at 110 V rated value	55 A
	— at 220 V rated value	25 A
		0.6 A
operating power at AC-2 at 400 V rated value 22 kW • at AC-3		
• at AC-2 at 400 V rated value 22 kW • at AC-3		
ext AC-3 at 230 V rated value 15 kW at 230 V rated value 22 kW at 600 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 4 400 V rated value 12 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 12 kW operating apparent power at AC-6a up to 500 V for current peak value n=20 rated value 23 kVA op to 500 V for current peak value n=20 rated value 24 kVA op to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 28 kVA op to 500 V for current peak value n=30 rated value 24 kVA at AC-1 rated value n=30 rated value 25 kVA op to 500 V for current peak value n=30 rated value 28 kVA op to 500 V for current peak value n=30 rated value 24 s kVA at AC-1 rated value at AC-1 rated value at AC-1 rated		22 kW
	• at AC-3	
		15 kW
		30 kW
et at AC-3e - at 400 V frated value - at 690 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=20 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - binted to 1 s witching at zero current maximum - at 000 V for current peak value n=30 rated value - at 000 V for current peak value n=30 rated value - at AC-1 maximum - at AC-1 is switching at zero current maximum - 297 A; Use minimum cross-section acc. to AC-1 rated value - at AC-1 is switching at zero current maximum - 298 A; Use minimum cross-section acc. to AC		
at 400 V rated value 22 kW at 630 V rated value 30 kW at 630 V rated value 22 kW operating power for approx. 200000 operating cycles at AC- 4 2 kW • at 400 V rated value 12.6 kW • at 600 V rated value 12.6 kW • at 600 V rated value 12.6 kW • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.8 kVA • up to 500 V for current peak value n=20 rated value 29.8 kVA • up to 500 V for current peak value n=20 rated value 29.8 kVA • up to 500 V for current peak value n=20 rated value 28.6 kVA • up to 500 V for current peak value n=30 rated value 11.4 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 500 V for current peak value n=30 rated value 28.6 kVA • up to 500 V for current maximum 697 rk, Use minimum cross-section acc. to AC-1 rated value • up to 500 V for current maximum 697 rk, Use minimum cross-section acc. to AC-1 rated value • up to 500 switching at zero current maximum 697 rk, Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 k, Use minimum cross-section acc. to AC-1 rated value		
		22 kW
		30 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • 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 500 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 500 V for current peak value n=20 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 24. VXA • up to 500 V for current peak value n=30 rated value 25. KVA • up to 500 V for current peak value n=30 rated value 28. KVA • up to 600 V for current peak value n=30 rated value 28. Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero curren		
• at 690 V rated value 18.2 kW operating apparent power at AC-6a 17.2 kVA • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.9 kVA • up to 690 V for current peak value n=20 rated value 27.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 200 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current nocld operating state up to 40° C 40 °C • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 286 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero curr		
operating apparent power at AC-6a 17.2 kVA • up to 230 V for current peak value n=20 rated value 17.2 kVA • up to 400 V for current peak value n=20 rated value 29.9 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA short-time withstand current in cold operating state up to d0 °C 28.6 kVA • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1	• at 400 V rated value	12.6 kW
• up to 230 V for current peak value n=20 rated value 17.2 kVA • up to 400 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 500 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA • up to 690 V for current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated va	• at 690 V rated value	18.2 kW
• up to 400 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 690 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-6a11.4 kVA• up to 230 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• ilmited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum280 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum280 V/n• at AC-1 maximum1000 1/h• at AC-2 maximum600 1/h• at AC-2 maximum800 1/h• at AC-3 maximum800 1/h </td <td>operating apparent power at AC-6a</td> <td></td>	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 19.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA short-time withstand current in cold operating state up to 40° C 28.6 kVA • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value • at AC- frequency • at AC-1 maximum • at AC-1	 up to 230 V for current peak value n=20 rated value 	17.2 kVA
• up to 690 V for current peak value n=20 rated value 28.6 kVA operating apparent power at AC-6a 11.4 kVA • up to 230 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 28.6 kVA short-time withstand current in cold operating state up to 40° C 28.6 kVA • limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 697 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 468 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 22 A; Use minimum cross-section acc. to AC-1 rated value	 up to 400 V for current peak value n=20 rated value 	29.9 kVA
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• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 400 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C28.6 kVA• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum293 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum294 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum290 t/h• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum600 1/h• at AC-2 maximum800 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/h	 up to 690 V for current peak value n=20 rated value 	28.6 kVA
• up to 400 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum260 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/h	operating apparent power at AC-6a	
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• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum200 °C• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/h	 up to 400 V for current peak value n=30 rated value 	19.9 kVA
short-time withstand current in cold operating state up to 40 °C 937 A; Use minimum cross-section acc. to AC-1 rated value e limited to 1 s switching at zero current maximum 937 A; Use minimum cross-section acc. to AC-1 rated value e limited to 10 s switching at zero current maximum 697 A; Use minimum cross-section acc. to AC-1 rated value e limited to 10 s switching at zero current maximum 468 A; Use minimum cross-section acc. to AC-1 rated value e limited to 30 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value e limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value e limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value of the degreen color of the d	 up to 500 V for current peak value n=30 rated value 	24.9 kVA
40 °C• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency • at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/h	 up to 690 V for current peak value n=30 rated value 	28.6 kVA
• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum200 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ ControlImage: Section acc.		
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• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency229 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/hoperating frequency5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/h	C C	
• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC5 000 1/hoperating frequency • at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3 maximum800 1/h• at AC-4 maximum250 1/h	-	
• limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency - • at AC 5 000 1/h operating frequency - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 600 1/h • at AC-3 maximum 800 1/h • at AC-3 maximum 800 1/h • at AC-4 maximum 250 1/h	-	
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3e maximum800 1/h• at AC-3e maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control		
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• at AC-2 maximum600 1/h• at AC-3 maximum800 1/h• at AC-3e maximum800 1/h• at AC-4 maximum250 1/hControl circuit/ Control		4 000 4/1
at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control		
at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control		
• at AC-4 maximum 250 1/h Control circuit/ Control		
Control circuit/ Control		
		250 1/h
type of voltage of the control supply voltage AC		
	type of voltage of the control supply voltage	AC

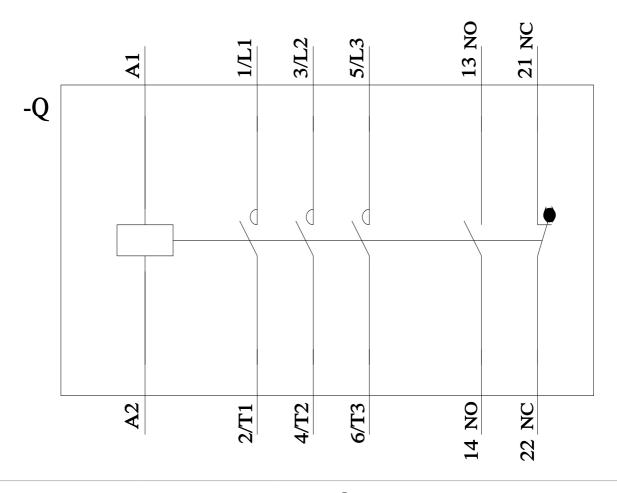
control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 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	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp

• for 3-phase AC motor	
- at 200/208 V rated value	15 hp
- at 220/230 V rated value	15 hp
- at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	standing, on horizontal 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	114 mm
width	55 mm
depth	130 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	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	coron type terminate
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 35 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
for main contacts	18 1
for auxiliary contacts	20 14
Safety related data	
product function	

	ccording to IEC 60947-4-1		/es No		
. ,	operation according to IEC				
	emand rate according to SN	1 3 1 3 2 0	000 000		
proportion of danger			10.0/		
	d rate according to SN 319		10 %		
	nd rate according to SN 319		73 %		
	ow demand rate according		100 FIT		
61508	interval or service life acco		20 a		
protection class IP o	n the front according to I		P20		
	the front according to IEC	60529 f	inger-safe, for vertical contact	from the front	
suitability for use					
 safety-related s Certificates/ approvals 		Y	/es	_	_
General Product App	proval				
(SP)	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Co	nformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping	BUREAU		Lloyds Register urs	PRS	RINA
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