SIEMENS

Data sheet 3RT2028-1NF30



Power contactor, AC-3 38 A, 18.5 kW / 400 V 1 NO + 1 NC AC (50 - 60 Hz) / DC 95-130 V AC / DC, 3-pole Size S0, screw terminals Size S0, screw terminals

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT2	
General technical data		
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 	9.6 W	
 at AC in hot operating state per pole 	3.2 W	
 without load current share typical 	1.8 W	
insulation voltage		
 of main circuit with degree of pollution 3 rated value 	690 V	
 of auxiliary circuit with degree of pollution 3 rated value 	690 V	
surge voltage resistance		
 of main circuit rated value 	6 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	8,3g / 5 ms, 5,3g / 10 ms	
• at DC	10g / 5 ms, 7,5g / 10 ms	
shock resistance with sine pulse		
• at AC	13,5g / 5 ms, 8,3g / 10 ms	
• at DC	15g / 5 ms, 10g / 10 ms	
mechanical service life (switching cycles)		
 of contactor typical 	10 000 000	
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000	
 of the contactor with added auxiliary switch block typical 	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
during operation	-25 +60 °C	
during storage	-55 +80 °C	

relative humidity minimum	10 %
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	00 /0
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 value at AC-1 	50 A
 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C 	50 A 42 A
rated value	· - ··
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
 at AC-4 at 400 V rated value 	22 A
 at AC-5a up to 690 V rated value 	44 A
 at AC-5b up to 400 V rated value 	31.5 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	30.8 A
 up to 400 V for current peak value n=20 rated value 	30.8 A
 up to 500 V for current peak value n=20 rated value 	30.8 A
 up to 690 V for current peak value n=20 rated value 	21 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	21.4 A
up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
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 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 110 V rated value	35 A
— at 220 V rated value	5 A

 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 186 A; Use minimum cross-se 186 A; Use minimum cross-se 	11 35 A 35 A 35 A 29 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 33 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 35 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 11 kW 18.5				
• with 3 current paths in series at DC-1 — at 124 V rated value	35 A 35 A 35 A 2.9 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 3 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 3 A 0.27 A 0.16 A 35 A 35 A 36 A 37 A 38 A 39 A 39 A 30 A 30 A 30 A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 39 A 39 A 39 A 30	— at 440 V rated value	1 A		
	35 A 35 A 35 A 2.9 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 35	— at 600 V rated value	0.8 A		
	35 A 35 A 2.9 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 35	 with 3 current paths in series at DC-1 			
	35 A 2.9 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 35 A 35 A 36 A 0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 11 kW 18.5 k	— at 24 V rated value	35 A		
at 440 V rated value	2.9 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 35 A 15 A 3 A 0.27 A 0.16 A 36 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 11 kW 18.5	— at 110 V rated value			
- at 440 V rated value	2.9 A 1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 35 A 15 A 3 A 0.27 A 0.16 A 36 A 37 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 k	— at 220 V rated value			
	1.4 A 20 A 2.5 A 1 A 0.09 A 0.06 A 3 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 0.8 A 11 kW 18.5 kW				
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value — at 220 V rated value — at 220 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 100 V rated value — at 100 V rated value — at 220 V rated value — at 600 V	20 A 2.5 A 1 A 0.09 A 0.06 A 35 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5				
	2.5 A 1 A 0.09 A 0.06 A 0.06 A 3 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 18.				
- at 110 V rated value	2.5 A 1 A 0.09 A 0.06 A 0.06 A 3 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 18.	-	20 Δ		
— at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value ■ with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 1110 V rated value — at 220 V rated value — at 460 V rated value — at 600 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at 400 V rated value — at 600 V ro current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 600 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=	1 A 0.09 A 0.06 A 0.06 A 3 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 11 kW 18.5 kVA 10 rated value 25 kVA 10 rated value 25 kVA 10 rated value 25 kVA 10 rated value 26 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 t maximum 18 A; Use minimum cross-section acc. to AC-1 rated value 18 t maximum 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 t maximum 18 A; Use minimum cross-section acc. to AC-1 rated value				
— at 440 V rated value — at 600 V rated value 35 A 35 A 36 A 37 A 38	0.09 A 0.06 A 0.06 A 0.06 A 15 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 18.				
■ with 2 current paths in series at DC-3 at DC-5 □ at 24 V rated value □ at 110 V rated value □ at 220 V rated value □ at 240 V rated value □ at 440 V rated value □ at 440 V rated value □ at 440 V rated value □ at 220 V rated value □ at 24 V rated value □ at 24 V rated value □ at 210 V rated value □ at 220 V rated value □ at 440 V rated value □ at 440 V rated value □ at 4600 V rated value □ at 4600 V rated value □ at 460 V rated value □ at 460 V rated value □ at 4500 V rated value □ at 500 V rated value □ at 500 V rated value □ at 500 V rated value □ at 400 V rated value □ at 500 V rated value □ at 690 V 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 □ 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 400 V for current peak value	3 at DC-5 35 A 15 A 3 A 0.27 A 0.16 A 3 at DC-5 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 0.1 kW 18.5 kW				
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 240 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 4600 V rated value — at 4600 V rated value — at 250 V rated value — at 250 V rated value — at 250 V rated value — at 400 V rated value — at 690 V rated value	35 A 15 A 36 A 15 A 37 A 0.27 A 0.16 A 38 A 39 A 30				
— at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 120 V rated value — at 220 V rated value — at 440 V rated value — at 460 V rated value — at 600 V rated value — at 600 V rated value — at 500 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 400 V rated value — at 600 V rated value —	35 A 15 A 3 A 0.27 A 0.16 A 35 A 35 A 36 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 19.0 rated value 10 rated value 20 rated value 25 kVA 25 kVA 25 kVA 25 kVA 35 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value maximum 186 A; Use minimum cross-section acc. to AC-1 rated value th maximum 186 A; Use minimum cross-section acc. to AC-1 rated value th maximum 186 A; Use minimum cross-section acc. to AC-1 rated value		U.06 A		
at 110 V rated value at 220 V rated value at 240 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 4600 V rated value at 400 V rated value at 600 V rated value at 600 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at	15 A 3 A 0.27 A 0.16 A 3 at DC-5 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 25 kVA 260 rated value 27 rated value 280 rated value 280 rated value 395 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value th maximum 395 A; Use minimum cross-section acc. to AC-1 rated value th maximum 395 A; Use minimum cross-section acc. to AC-1 rated value th maximum th maximum 186 A; Use minimum cross-section acc. to AC-1 rated value th maximum	•			
- at 220 V rated value - at 440 V rated value - at 4600 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 4600 V rated value - at 600 V rated value - at 4600 V rated value - at 400 V rated value - at 500 V rated value - at 400 V rated value - at 690 V rated value - at 690 V rated value - at 690 V rated value - at 600 V rate	3 A 0.27 A 0.16 A 35 A 35 A 35 A 10 A 0.6 A 0.6 A 11 kW 18.5 kW 20 rated value 25 kVA 25 kVA 25 kVA 26 rated value 37 rated value 38 1 kVA 41.2 kVA 42.5 kVA 42.5 kVA 43.5 kVA 44.2 kVA 45.5 kVA 45.5 kVA 45.5 kVA 46 rated value 47 rated value 48 1 kVA 48				
- at 440 V rated value - at 600 V rated value - at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 400 V rated value - at 690 V rated value - at 400 V rated value - at 500 V rated value - at 690 V ro current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=30 rated value - up t	0.27 A 0.16 A 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 20 rated value 25 kVA 25 kVA 25 kVA 25 kVA 26 rated value 37 rated value 38 rate 39 rated value 30 rated value 3				
 with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 400 V rated value — at 690 V rated value — at 400 V rated value — at 690 V ror current peak value n=20 rated value • at 690 V ror current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 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 • 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 600 V for current peak value n=30 rated value • up to 600 V switching at zero current maximum • limited to 10 s switc	3 at DC-5 35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kVA 19.0 rated value 10.0 rated value 1				
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V routed value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for curre	35 A 35 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 k				
- at 24 V rated value - at 110 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value operating power • at AC-3 - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V ror current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 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 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	35 A 35 A 36 A 36 A 37 A 38 A 38 A 38 A 39 A 30	— at 600 V rated value	0.16 A		
- at 110 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value Operating power • at AC-3 - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rocurrent peak value n=20 rated value - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=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 peak value n=30 rated value - up to 690 V for current pea	35 A 10 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 20 rated value 20 rated value 20 rated value 21.3 kVA 25 kVA 25 kVA 25 kVA 25 kVA 26 rated value 27 rated value 28 rated value 29 rated value 20 rated val	 with 3 current paths in series at DC-3 at DC-5 			
- at 220 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value operating power • at AC-3 - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 690 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value - at 690 V ro current peak value n=20 rated value - at 690 V ro current peak value n=20 rated value - at 690 V ro current peak value n=30 rated val	10 A 0.6 A 0.6 A 0.6 A 0.6 A 11 kW 18.5 kW 18.5 kW 18.5 kW 18.5 kW 18.5 kW 18.5 kW 10.3 kW 10.3 kW 10.3 kW 10.3 kW 10.4 to rated value 10.5 to rated value 10.5 to rated value 10.5 to rated value 10.6 to rated value 10.7 to ra	— at 24 V rated value	35 A		
- at 440 V rated value - at 600 V rated value operating power at AC-3 - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated va	11 kW 18.5 kW 18.5 kW 11 kW 18.5 kVA 1	— at 110 V rated value	35 A		
operating power at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value	11 kW 18.5 kW 10.7 rated value 20 rated value 20 rated value 21.3 kVA 22 kVA 25 kVA 25 kVA 25 kVA 25 kVA 26 rated value 27 rated value 38 rated value 39 rated value 30 rated value 31 kVA 32 kVA 33 kVA 34 kVA 35 kVA 36 rated value 36 kVA 37 kVA 38 kVA 39 crated value 39 crated value 39 crated value 30 rated value 30 rated value 30 rated value 31 kVA 32 kVA 33 kVA 34 kVA 35 kVA 36 rated value 36 kVA 37 kVA 38 kVA 39 crated value 30 rated	— at 220 V rated value	10 A		
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 230 V rated value — at 230 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 900 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 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30	11 kW 18.5 kW 18.5 kW 11 kW 18.5 kVA 18.5 kW 18.	— at 440 V rated value	0.6 A		
at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value	18.5 kW 10.3 kW 10.3 kW 10.2 rated value 20 rated value 20 rated value 21.3 kVA 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 26.6 kVA 27 rated value 28.1 kVA 28.1 kVA 29.0 rated value 29.0 rated value 20 rated value 20 rated value 21.3 kVA 22 kVA 23 kVA 25 kVA 25 kVA 26.0 rated value 27 kVA 28 kVA 29 rated value 28 kVA 29 rated value 20 rated value 20 rated value 21.3 kVA 22 kVA 23 kVA 25 kVA 26 rated value 26 kVA 27 rated value 28 kVA 28 kVA 29 rated value 29 kVA 20 rated value 21.3 kVA 22 kVA 23 kVA 24 rated value 25 kVA 26 rated value 26 kVA 27 rated value 28 kVA 28 rated value 29 rated value 20 rated value 20 rated value 20 rated value 20 rated value 21.3 kVA 22 kVA 23 kVA 24 rated value 25 kVA 26 rated value 26 rated value 27 rated value 28 rated value 28 rated value 29 rated value 20 rated	— at 600 V rated value	0.6 A		
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value	18.5 kW 10.3 kW 10.3 kW 10.2 rated value 20 rated value 20 rated value 21.3 kVA 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 26.6 kVA 27 rated value 28.1 kVA 28.1 kVA 29.1 rated value 29.2 rated value 20 rated value 20 rated value 21.3 kVA 22 kVA 23 kVA 25 kVA 25 kVA 26.6 kVA 27 rated value 28.1 kVA 28.1 kVA 29.1 rated value 29.2 kVA 20 rated value 20 rat	operating power			
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value	18.5 kW 10.3 kW 10.3 kW 10.2 rated value 20 rated value 21.3 kVA 26.6 kVA 25 kVA 25 kVA 25 kVA 26.0 rated value 37 rated value 38.1 kVA 39 rated value 40.0 rated value 41.2 kVA 42.0 rated value 43.1 kVA 44.2 kVA 45.0 rated value 45.5 kVA 46.0 rated value 46.0 rated value 47 rated value 48.5 kVA 48.5 kVA 48.6 rated value 48.7 kVA 48.6 rated value 48.7 kVA 48.6 rated value 48.7 kVA 48.7 kVA 48.8 rated value 48.8 rated value 48.8 rated value 48.9 rated value 48.9 rated value 48.9 rated value 48.9 rated value 48.1 kVA 48.1 kVA 48.2 kVA 48.3 kVA 48.4 kVA 48.5 kVA 48.6 rated value 48.7 kVA 48.7 kVA 48.7 kVA 48.7 kVA 48.8 kVA	• at AC-3			
- at 500 V rated value - at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=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 p	18.5 kW 10.3 kW 10.3 kW 10.2 rated value 20 rated value 20 rated value 21.3 kVA 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 26.0 rated value 37 rated value 38.1 kVA 39 rated value 39 kVA 30 rated value 30 rated value 31.5 kVA 31.5 kVA 32.5 kVA 33.5 kVA 34.5 kVA 35 kVA 36 rated value 37 kVA 38 kVA 39 rated value 38 kVA 39 rated value 39 kVA 30 kV	— at 230 V rated value	11 kW		
- at 500 V rated value - at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 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 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 • 25 kVA	18.5 kW 10.3 kW 10.3 kW 10.2 rated value 20 rated value 20 rated value 21.3 kVA 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 26.6 kVA 27 rated value 28.1 kVA 28.1 kVA 29.1 rated value 29.2 rated value 20 rated value 20 rated value 20 rated value 21.3 kVA 22 kVA 23 kVA 25 kVA 25 kVA 26.6 kVA 27 rated value 28.1 kVA 28.1 kVA 29.1 rated value 29.2 kVA 20 rated value 20 rate	— at 400 V rated value	18.5 kW		
- at 690 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value 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 • at 690 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 690 V for current peak value n=20 rated value • up to 690 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 690 V for current peak value n=30 r	18.5 kW 18.5 kW 18.5 kW 18.5 kW 18.5 kW 10.3 kW 10.3 kW 10.2 kVA 20. rated value 30. rated value				
 at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value — at 700 V rated value — a	11 kW 18.5 kW 18.5 kW 18.5 kW 10.3 kW 20 rated value 21.3 kVA 20 rated value 25 kVA 25 kVA 26 rated value 25 kVA 27 rated value 28 rated value 29 kVA 20 rated value 20 rated value 20 rated value 21.3 kVA 25 kVA 25 kVA 26 rated value 25 kVA 27 rated value 28 rated value 29 kVA 20 rated value 20 rated value 21.3 kVA 20 rated value 25 kVA 26 rated value 25 kVA 27 rated value 28 rated value 29 kVA 20 rated value 21 rated value 22 rated value 23 rated value 24 rated value 25 rated value 26 rated value 27 rated value 28 rated value 28 rated value 29 rated value 20 rated value 21 rated value 22 rated value 23 rated value 24 rated value 25 rated value 26 rated value 27 rated value 28 rated value 28 rated value 29 rated value 20				
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- at 400 V rated value - at 500 V rated value 18.5 kW 18.5 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 operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value operating apparent power at AC-6a • up to 500 V for current peak value n=30 rated value operating apparent power at AC-6a • up to 690 V for current peak value n=30 rated value operating apparent power at AC-6a operating apparent	18.5 kW 18.5 kW 18.5 kW 10.3 kW 10.3 kW 10.3 kW 10.3 kW 10.3 kVA 20. rated value 21.3 kVA 20. rated value 25. kVA 25. kVA 26. rated value 27. skVA 28. rated value 28. rated value 29. rated value 20. rated v		11 kW		
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 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 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 690 V for current peak value n=30 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 30 s switching at zero current maximum limited to 30 s switching at zero current maximum 	20 rated value 25 kVA 25 kVA 8.1 kVA 14.2 kVA 18.5 kVA 25 kVA 27 rated value 14.2 kVA 28 rated value 25 kVA 28 rated value 18.5 kVA 29 rated value 25 kVA 20 rated value 25 kVA 20 rated value 25 kVA 25 kVA 26 rated value 25 kVA 26 rated value 26 kVA 27 rated value 27 rated value 28 rated value 28 rated value 28 rated value 28 rated value 26 rated value 27 rated value 27 rated value 27 rated value 28 rated val				
 up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 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 690 V for current peak value n=30 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 30 s switching at zero current maximum limited to 30 s switching at zero current maximum 	25 kVA 8.0 rated value 8.1 kVA 14.2 kVA 18.5 kVA 25 rated value 25 kVA 80 rated value 18.5 kVA 25 kVA 80 rated value 25 kVA 25 kVA 26 rated value 25 kVA 26 rated value 27 kVA 28 rated value 28 rated value 29 rated value 20 A; Use minimum cross-section acc. to AC-1 rated value 20 A; Use minimum cross-section acc. to AC-1 rated value 21 rated value 22 rated value 23 rated value 24 raximum 25 rated value 26 rated value 27 rated value 28 rated value 28 rated value 29 rated value 20 rated value 20 rated value 20 rated value 21 rated value 22 rated value 23 rated value 24 rated value 25 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 690 V for current peak value n=30 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 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum	8.1 kVA 14.2 kVA 150 rated value 18.5 kVA 25 kVA 25 kVA maximum 593 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value at maximum 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value				
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 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 30 s switching at zero current maximum 186 A; Use minimum cross-see 	14.2 kVA 18.5 kVA 25 rated value 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 27 rated value 28 raximum 29 A; Use minimum cross-section acc. to AC-1 rated value 29 raximum 20 A; Use minimum cross-section acc. to AC-1 rated value 20 A; Use minimum cross-section acc. to AC-1 rated value 21 raximum 22 raximum 24 raximum 25 A; Use minimum cross-section acc. to AC-1 rated value 26 A; Use minimum cross-section acc. to AC-1 rated value		25 KVA		
 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 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 30 s switching at zero current maximum 186 A; Use minimum cross-see 	14.2 kVA 18.5 kVA 25 rated value 25 kVA 25 kVA 25 kVA 25 kVA 25 kVA 27 rated value 28 raximum 29 A; Use minimum cross-section acc. to AC-1 rated value 29 raximum 20 A; Use minimum cross-section acc. to AC-1 rated value 20 A; Use minimum cross-section acc. to AC-1 rated value 21 raximum 22 raximum 24 raximum 25 A; Use minimum cross-section acc. to AC-1 rated value 26 A; Use minimum cross-section acc. to AC-1 rated value		0.411/4		
 up to 500 V for current peak value n=30 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 30 s switching at zero current maximum 186 A; Use minimum cross-see 	18.5 kVA 25 kVA 25 kVA ating state maximum 593 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value at maximum 260 A; Use minimum cross-section acc. to AC-1 rated value at maximum 186 A; Use minimum cross-section acc. to AC-1 rated value at maximum 186 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 30 s switching at zero current maximum 	25 kVA maximum 593 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value at maximum 260 A; Use minimum cross-section acc. to AC-1 rated value at maximum 186 A; Use minimum cross-section acc. to AC-1 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 186 A; Use minimum cross-second limited to 30 s switching at zero current maximum	maximum 593 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value at maximum 186 A; Use minimum cross-section acc. to AC-1 rated value				
 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 186 A; Use minimum cross-se 186 A; Use minimum cross-se 	maximum 593 A; Use minimum cross-section acc. to AC-1 rated value maximum 395 A; Use minimum cross-section acc. to AC-1 rated value at maximum 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value				
 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 186 A; Use minimum cross-se 186 A; Use minimum cross-se 	maximum 395 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value		25 kVA		
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 186 A; Use minimum cross-se 	t maximum 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value		25 kVA		
• limited to 30 s switching at zero current maximum 186 A; Use minimum cross-se	t maximum 186 A; Use minimum cross-section acc. to AC-1 rated value	up to 40 °C			
• limited to 30 s switching at zero current maximum 186 A; Use minimum cross-se	t maximum 186 A; Use minimum cross-section acc. to AC-1 rated value	up to 40 °C ■ limited to 1 s switching at zero current maximum	593 A; Use minimum cross-section acc. to AC-1 rated value		
		 up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	593 A; Use minimum cross-section acc. to AC-1 rated value 395 A; Use minimum cross-section acc. to AC-1 rated value		
■ IIITIILEU LO DU S SWILCTIITIQ AL ZETO CUTTETIL MAXIMUM 152 A: USE MINIMUM CROSS-SE	, , , , , , , , , , , , , , , , , , , ,	 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 	593 A; Use minimum cross-section acc. to AC-1 rated value 395 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 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 	593 A; Use minimum cross-section acc. to AC-1 rated value 395 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value		
0	1 500 1/h	 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 	593 A; Use minimum cross-section acc. to AC-1 rated value 395 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value		
• at AC 1 500 1/h		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	593 A; Use minimum cross-section acc. to AC-1 rated value 395 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value		
			25 kVA		
• at AC 1 500 1/h		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	593 A; Use minimum cross-section acc. to AC-1 rated value 395 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value		

operating frequency	
• at AC-1 maximum	1 000 1/h
 at AC-2 maximum 	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
 at 50 Hz rated value 	95 130 V
at 60 Hz rated value	95 130 V
control supply voltage at DC	
rated value	95 130 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.7
full-scale value	1.3
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.7 1.3
• at 60 Hz	0.7 1.3
design of the surge suppressor	with varistor
inrush current peak	15 A
duration of inrush current peak	30 µs
locked-rotor current mean value	0.13 A
locked-rotor current peak	0.19 A
duration of locked-rotor current	180 ms
holding current mean value	19 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	11.9 VA
• at 60 Hz	12 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.98
• at 60 Hz	0.98
apparent holding power of magnet coil at AC	4.01/4
• at 50 Hz	1.6 VA
• at 60 Hz	1.8 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.79
• at 60 Hz	0.74
closing power of magnet coil at DC	10.2 W
holding power of magnet coil at DC	1.3 W
closing delay	
• at AC	50 80 ms
• at DC	50 75 ms
opening delay	
• at AC	30 50 ms
• at DC	30 50 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts 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	- idaily officining por 100 million (17 V, 1 m/v)		
-			
full-load current (FLA) for 3-phase AC motor	24.4		
• at 480 V rated value	34 A		
at 600 V rated value	27 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	3 hp		
— at 230 V rated value	5 hp		
 for 3-phase AC motor 			
 — at 200/208 V rated value 	10 hp		
 at 220/230 V rated value 	10 hp		
 at 460/480 V rated value 	25 hp		
— at 575/600 V rated value	25 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: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)		
 — with type of assignment 2 required 	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
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		
mounting position	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail		
mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
mounting position fastening method • side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes		
mounting position fastening method • side-by-side mounting height	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm		
mounting position fastening method • side-by-side mounting height width	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm		
mounting position fastening method • side-by-side mounting height width depth	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 0 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 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 — solid 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) - solid or stranded 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) — finely stranded with core end processing 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (16 ... 12), 2x (14 ... 8) connectable conductor cross-section for main contacts solid 1 ... 10 mm² stranded 1 ... 10 mm² • finely stranded with core end processing 1 ... 10 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 mm² 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 mm²), 2x (0.75 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section for main contacts 16 ... 8 • for auxiliary contacts 20 ... 14 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 450 000 proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 100 FIT 31920 T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use · safety-related switching OFF Yes Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC Functional De	claration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Miscellaneous











Marine / Shipping

other

Dangerous Good



Confirmation



Confirmation

Transport Informa-<u>tion</u>

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2028-1NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1NF30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1NF30

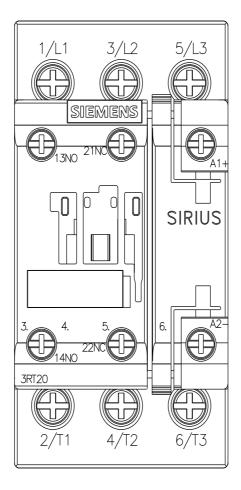
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT2028-1NF30&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1NF30/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1NF30&objecttype=14&gridview=view1



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