SIEMENS

Data sheet 3RT2015-2FB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, with integrated diode, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4 W
type of calculation of power loss depending on pole	quadratic
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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
 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
SVHC substance name	Lead - 7439-92-1
Weight	0.314 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %

maximum	
Environmental footprint	
	Yes
Environmental Product Declaration(EPD)	
global warming potential [CO2 eq] total	153 kg
global warming potential [CO2 eq] during manufacturing	1.42 kg
global warming potential [CO2 eq] during operation	152 kg
global warming potential [CO2 eq] after end of life	-0.305 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	000 1/
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	40.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	18 A
— up to 690 V at ambient temperature 40 °C rated	18 A
value — up to 690 V at ambient temperature 40 °C rated — up to 690 V at ambient temperature 60 °C rated	16 A
value	
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
 at AC-5a up to 690 V rated value 	15.8 A
 at AC-5b up to 400 V rated value 	5.8 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
 up to 400 V for current peak value n=30 rated value 	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4	26.4
at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
at 1 current path at DC-1 at 24 V roted value	15 A
— at 24 V rated value	15 A 15 A
— at 60 V rated value — at 110 V rated value	1.5 A
— at 110 V rated value — at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 440 V rated value — at 600 V rated value	0.42 A 0.42 A
with 2 current paths in series at DC-1	0.7271
— at 24 V rated value	15 A
— at 24 V rated value — at 60 V rated value	15 A
— at 100 V rated value — at 110 V rated value	8.4 A
— at 110 V rated value — at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— מו דדט v ומוכט valuc	0.071

at 500 V rated value 0.5 A at 24 V rated value 15 A at 310 V rated value 15 A at 310 V rated value 15 A at 310 V rated value 15 A at 400 V rated value 0.9 A at 400 V rated value 0.9 A at 310 V rated value 0.7 A at 310 V rated value 0.9 A at 50 V rated value 0.9 A at 50 V rated value 0.9 A at 60 V rated value 0.2 A at 60 V rated value 15 A at 60 V rated value 15 A at 60 V rated value 15 A at 70 V rated value 1.0 A at 70 V rated value 1.5 A at 70 V rated				
	— at 600 V rated value	0.5 A		
	 with 3 current paths in series at DC-1 			
	— at 24 V rated value	15 A		
	— at 60 V rated value	15 A		
	— at 110 V rated value			
- at 20 V rated value	— at 220 V rated value			
- at 12 verrent paths at DC-3 at DC-5	— at 440 V rated value	0.9 A		
	— at 600 V rated value	0.7 A		
	at 1 current path at DC-3 at DC-5			
at 60 V rated value at 10 V rated value at 24 V rated value at 24 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 20 V rated value at 40 V rated value at 230 V rated value	•	15 A		
- with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 10 V rated value - at 10 V rated value - at 10 V rated value - at 24 V rated value - at 24 V rated value - at 24 V rated value - at 25 V rated value - at 26 V rated value - at 27 V rated value - at 29 V rated value - at 29 V rated value - at 40 V rated value - at 40 V rated value - at 40 V rated value - at 400 V rated value - at 600 V				
	•	15 Δ		
• with 3 current paths in series at DC-3 at DC-5 • = 124 V rated value • = 41 G V rated value • = 15 A • = 14 G V rated value • = 15 A • = 11 G V rated value • = 15 A • = 11 G V rated value • = 120 V rated value • = 120 V rated value • = 120 V rated value • = 124 G V rated value • = 14 40 V rated value • = 14 00 V rated value • = 14 00 V rated value • = 14 00 V rated value • = 15 W V rated value • = 16 90 V rated value • = 15 KW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • = 16 90 V rated value • = 15 KW Operating apparent power at AC-8a • 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=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=40 rated value • up to 500 V for cu				
- with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 110 V rated value - at 120 V rated value - at 1440 V rated value - at 440 V rated value - at 440 V rated value - at 400 V rated value - at 230 V rated value - at 250 V rated v				
		0.25 A		
	•	45.4		
operating power				
e at AC-3 — at 230 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 • up to 400 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=30 rated value • up to 500 V for current teak value n=30 rated value • up to 500 V for current teak v		0.14 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 400 V rated value — at 400 V rated value — at 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=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 to 690 V for current peak	— at 600 V rated value	0.14 A		
at 230 V rated value at 400 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 690 V rated value 20 rated	operating power			
- at 400 V rated value	• at AC-3			
- at 500 V rated value	— at 230 V rated value	1.5 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 - 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 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 - 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 - 20 kVA - 20 k	— at 400 V rated value	3 kW		
at AC-3e at 230 V rated value at 690 V rated value at 600 V rate value at 600 V rated value at 600 V rated value at 600 V rat	— at 500 V rated value	3 kW		
- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 690 V rated value • at 400 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 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 200 V for	— at 690 V rated value	4 kW		
- at 400 V rated value - at 500 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 • 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 690 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • 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 • 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 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	• at AC-3e			
- at 500 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 • 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 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 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • 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 surrent peak value n=30 rated value • up to 500 V for surrent peak value n=30 rated value • up to 500 V for surrent peak value n=30 rated value • up to 500 V for surrent peak value n=30 rated value • up to 500 V for surrent 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 69	— at 230 V rated value	1.5 kW		
	— at 400 V rated value	3 kW		
operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 1.15 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 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 2.2 kVA 2.9 kVA short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 switching at zero current maximum al imited to 60 s switching at zero current maximum al imited to 60 s switching at zero curre	— at 500 V rated value	3 kW		
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* at 400 V rated value * at 690 V rated value * at 690 V rated value * out 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 690 V for current peak value n=20 rated value * up to 690 V for current peak value n=20 rated value * out 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 * 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 890 V for current peak value n=30 rated value * up to 890 V for current peak value n=30 rated value * up to 890 V for current peak value n=30 rated value * up to 890 V for current peak value n=30 rated value * up to 890 V for current peak value n=30 rated value * up to 890 V for current peak value n=30 rated value * up to 890 V for current peak value n=30 rated value * limited to 1 s switching at zero current maximum * 6A ; Use minimum cross-section acc. to AC-1 rated value * limited to 50 s switching at zero current maximum * 52 A; Use minimum cross-section acc. to AC-1 rated value * limited to 60 s switching at zero current maximum * 52 A; Use minimum cross-section acc. to AC-1 rated value * limited to 60 s switching at zero current maximum * 1000 1/h * at AC-1 maximum * at AC-1 maximum * at AC-1 maximum * at AC-2 maximum * at AC-3 maximum * at AC-4 maximum * at AC-5 amaximum * at AC-5 amaximum * at AC-5 amaximum * at AC-5 amaximum *				
• 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 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 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 • 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 • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum 1 000 1/h operating frequency • at AC-1 maximum • at AC-2 maximum 1 000 1/h • at AC-3 maximum 750 1/h				
operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 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 • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 1000 1/h • at AC-1 maximum • 1000 1/h • at AC-2 maximum • at AC-3 maximum 750 1/h	• at 400 V rated value	1.15 kW		
 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 230 V for current peak value n=30 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 2.2 kVA up to 690 V for current peak value n=30 rated value 2.2 kVA up to 690 V for current peak value n=30 rated value 2.9 kVA Short-time withstand current in cold operating state up to 40 °C limited to 1 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 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching frequency at DC at DC 10 000 1/h operating frequency at AC-1 maximum at AC-2 maximum 750 1/h at AC-3 maximum 	at 690 V rated value	1.15 kW		
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 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 up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 2.2 kVA up to 690 V for current peak value n=30 rated value 2.9 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 s switching at zero current maximum standard to 60 switching at zero current	operating apparent power at AC-6a			
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 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 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 60	 up to 230 V for current peak value n=20 rated value 	1.5 kVA		
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	• up to 400 V for current peak value n=20 rated value	2.7 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 • 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 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 10 000 1/h operating frequency • at DC • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h	• up to 500 V for current peak value n=20 rated value	3.3 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 • 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 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 10 000 1/h operating frequency • at AC-1 maximum 1000 1/h • at AC-2 maximum 40 NVA 1. kVA 1. kVA 1. kVA 1. kVA 1. 8 kVA 2. 2 kVA 2. 9 kVA 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rate	• up to 690 V for current peak value n=20 rated value	4.3 kVA		
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 up to 690 V for current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maxim	operating apparent power at AC-6a			
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 2.2 kVA short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum at 3 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 60 s switching at zero current maximum at 3 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h operating frequency at AC-1 maximum 1 000 1/h		1 kVA		
up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 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 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum rooload switching frequency at DC 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				
• 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 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 1000 1/h operating frequency • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 2.9 kVA 2.0 A; Use minimum cross-section acc. to AC-1 rated value 4.2 A; Use minimum cross-section acc. to AC-1 rated value 4.3 A; Use minimum cross-section acc. to AC-1 rated value 4.3 A; Use minimum cross-section acc. to AC-1 rated value 4.3 A; Use minimum cross-section acc. to AC-1 rated value 750 1/h 750 1/h				
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 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at DC 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				
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum 750 1/h 750 1/h 	short-time withstand current in cold operating state up to			
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 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 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zer		120 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC 10 000 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum 750 1/h 	-			
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC 10 000 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum 750 1/h 	-			
 limited to 60 s switching at zero current maximum no-load switching frequency at DC 10 000 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum 750 1/h 				
no-load switching frequency				
● at DC operating frequency ● at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum 750 1/h		TO A, OSC MINIMUM GIOSO-SCOLION ACC. TO ACT FACEU 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		10,000 1/b		
 at AC-1 maximum at AC-2 maximum at AC-3 maximum 750 1/h 750 1/h 		10 000 1/11		
 at AC-2 maximum at AC-3 maximum 750 1/h 750 1/h 		4.000.4/b		
• at AC-3 maximum 750 1/h				
• at AC-3e		750 1/h		
	• at AC-3e			

maximum	750 4 lb	
— maximum	750 1/h	
• at AC-4 maximum	250 1/h	
Control circuit/ Control		
type of voltage of the control supply voltage	DC	
control supply voltage at DC rated value	24 V	
operating range factor control supply voltage rated value of magnet coil at DC		
initial value	0.8	
• full-scale value	1.1	
design of the surge suppressor	diode	
closing power of magnet coil at DC	4 W	
holding power of magnet coil at DC	4 W	
closing delay		
• at DC	30 100 ms	
opening delay		
• at DC	38 65 ms	
arcing time	10 15 ms	
control version of the switch operating mechanism	Standard A1 - A2	
Auxiliary circuit		
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	1A	
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	1.4	
• at 600 V rated value	0.15 A	
operational current at DC-13	40.0	
at 24 V rated value at 48 V rated value	10 A 2 A	
at 48 V rated valueat 60 V rated value	2 A	
at 100 V rated value at 110 V rated value	1A	
at 110 V rated value at 125 V rated value	0.9 A	
at 220 V rated value at 220 V rated value	0.9 A 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	4.8 A	
• at 600 V rated value	6.1 A	
yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	0.25 hp	
— at 230 V rated value	0.75 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	1.5 hp	
— at 220/230 V rated value	2 hp	
— at 460/480 V rated value	3 hp	
— at 575/600 V rated value	5 hp	
contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA	

decises of the five limb		
design of the fuse link		
for short-circuit protection of the main circuit	0.05 4.000 \/.400 \.A. 400 \.A. 400 A./000 \/.400 \.A. 7000 \.A. 70	
— with type of coordination 1 required	gG: 35 A (690 V,100 kA), aM: 20 A (690 V,100 kA), BS88: 35 A (415 V,80 kA)	
with type of coordination 2 required	gG: 20 A (690 V, 100 kA), aM: 16 A (690 V, 100 kA), BS88: 20 A (415 V, 80 kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
nstallation/ 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 side-by-side mounting	Yes	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
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)	
for AWG cables for main contacts connectable conductor errors section for main contacts.	2x (20 12)	
connectable conductor cross-section for main contacts • solid	0.5 4 mm²	
solid stranded	0.5 4 mm²	
stranded finely stranded with core end processing	0.5 4 mm²	
	0.5 2.5 mm ²	
finely stranded without core end processing connectable conductor cross-section for auxiliary contacts	0.0 2.0 Hilli	
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 mm ²	
type of connectable conductor cross-sections	5.5 2.0 Hilli	
• 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 with core end processing — finely stranded without core end processing	2x (0.5 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 12)	
AWG number as coded connectable conductor cross section for main contacts	20 12	
	20 12	
AWG number as coded connectable conductor cross section for auxiliary contacts	20 12	

Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29		
 positively driven operation according to IEC 60947-5-1 	No		
suitable for safety function	Yes		
suitability for use safety-related switching OFF	Yes		
service life maximum	20 a		
test wear-related service life necessary	Yes		
proportion of dangerous failures			
 with low demand rate according to SN 31920 	40 %		
 with high demand rate according to SN 31920 	73 %		
B10 value with high demand rate according to SN 31920	1 000 000		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
ISO 13849			
device type according to ISO 13849-1	3		
overdimensioning according to ISO 13849-2 necessary	Yes		
IEC 61508			
safety device type according to IEC 61508-2	Type A		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
Approvals Certificates			



General Product Approval









<u>KC</u>

General	Produ	ct Ap-
proval		

EMV

Test Certificates

Maritime application





Type Test Certificates/Test Report

Special Test Certificate





Maritime application





LRS

Confirmation



Special Test Certific-

<u>ate</u>





Miscellaneous

other

other

Railway

Dangerous goods

Transport Information



Environmental Confirmations

-

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RT2015-2FB41

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-2FB41}$

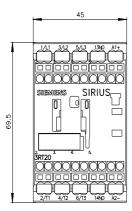
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

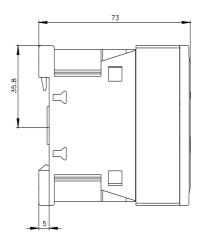
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2FB41

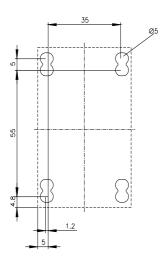
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2FB41&lang=en

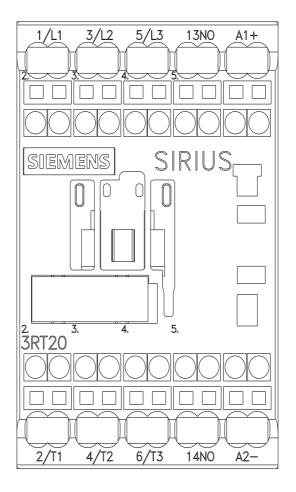
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2FB41/char

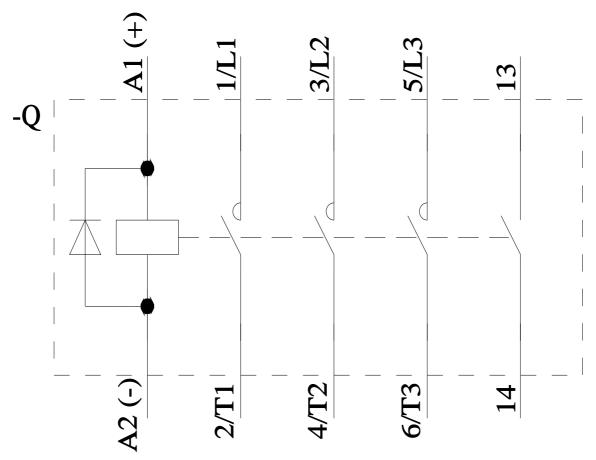
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2FB41&objecttype=14&gridview=view1











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