SIEMENS

Data sheet 3RT2037-3NF30



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, 84-155 V AC/DC with varistor 3-pole, size S2 Spring-type terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	11.4 W
• per pole	3.8 W
power loss [W] for rated value of the current without load current share typical	2 W
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 acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
- L	

number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	80 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	80 A
 up to 690 V at ambient temperature 60 °C rated value 	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
 at AC-4 at 400 V rated value 	55 A
 at AC-5a up to 690 V rated value 	70.4 A
 at AC-5b up to 400 V rated value 	53.9 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	56.9 A
 up to 400 V for current peak value n=20 rated value 	56.9 A
 up to 500 V for current peak value n=20 rated value 	56.9 A
 up to 690 V for current peak value n=20 rated value 	47 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	

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	• at 1 current path at DC-3 at DC-5	
at 600 V rated value		
• with 2 current paths in series at DC-3 at DC-5		
= at 24 V rated value		0.06 A
	— at 24 V rated value	
	— at 110 V rated value	
■ at 800 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 600 V rated value ■ at 600 V rated value ■ at AC-2 at 400 V rated value ■ at AC-2 at 400 V rated value ■ at AC-3 ■ at AC-2 at 400 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 400 V rated value ■ at 900 V rated value ■ at 400 V rated value ■ at 900 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 ■ at 600 s switching at zero current maximum ■ limited to 1 s switching at zero current maximum ■ limited to 50 s s	— at 220 V rated value	5 A
with 3 current praths in series at DC-3 at DC-5	— at 440 V rated value	0.27 A
at 24 V rated value at 110 V rated value 25 A at 140 V rated value 25 A at 440 V rated value 26 A at 440 V rated value 26 A	— at 600 V rated value	0.16 A
at 110 V rated value at 220 V rated value at 600 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-20 rated value at 600 V for current peak value n-30 rated value at 600 V for current peak value n-30 rated value at 600 V for current peak value n-30 rated value at 600 V for current peak value n-30 rated value at 600 V for current peak value n-30 rated value at 600 V for 600 V for current peak value n-30 rated value at 600 V for 60	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	
	— at 110 V rated value	55 A
O.35 A	— at 220 V rated value	25 A
operating power at AC-2 at 400 V rated value at AC-3 — at 230 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 400 V rated value — at 690 V rated value — at 690 V rated value — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 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 — u	— at 440 V rated value	0.6 A
at AC-2 at 400 V rated value at AC-3 at AC-3 at a 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 680 V rated value at	— at 600 V rated value	0.35 A
at AC-3 at 230 V rated value at 400 V rated value 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 operating apparent power at AC-6a au to 230 V for current peak value n=20 rated value au to 400 V for current peak value n=20 rated value au to 500 V for current peak value n=20 rated value au to 500 V for current peak value n=20 rated value au to 500 V for current peak value n=20 rated value au to 500 V for current peak value n=20 rated value au to 500 V for current peak value n=30 rated value au to 400 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 400 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 400 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 40 V for current peak value n=30 rated value au to 40 V for current peak value n=30 rated value au to 40 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current peak value n=30 rated value au to 500 V for current maximum al imited to 10 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	operating power	
- at 230 V rated value - at 400 V 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=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 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 600 V for current peak value n=30 rated value - at 600 V for current peak value n=30 rated value - at 600 V for current peak value n=30 rated value - at 600 V for current peak value n=30 rated value - at 600 V for current maximum - at 600 V for current maximum - at 600 V for cu	• at AC-2 at 400 V rated value	30 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value 37 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 500 V for current maximum • limited to 10 s switc		
- 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 • 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 500 V for current peak value n=20 rated value • up to 500 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 val		
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 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=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=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 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 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 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 • 1055 A; Use minimum cross-section acc. to AC-1 rated value • 1050 A; Use minimum cross-section acc. to AC-1 rated value • 1050 A; Use minimum cross-section	— at 400 V rated value	30 kW
operating power for approx. 200000 operating cycles at AC-4 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 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 sup 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 6	— at 500 V rated value	37 kW
at AC-4 • at 400 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=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 690 V for current peak value n=30 rated value • imited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • 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 60 s switching at zero current maximum • limited	— at 690 V rated value	37 kW
• 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 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=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 40 °C • 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 60 s switching at zero current ma		
operating apparent power at AC-6a • up to 230 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=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 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 • 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 60 s switching at zero current maximum • limited t	 at 400 V rated value 	14.7 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 590 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 590 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 590 V for current peak value n=30 rated value up to 590 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 ilimited to 1 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 maximum ilimited to 60 s switching at zero current maximum ro-load switching frequency at AC at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-2 maximum at AC-2 maximum to AC-4 maximum at AC-2 maximum at AC-3 maximum	at 690 V rated value	20 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 poperating apparent power at AC-8 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 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 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 no-load switching frequency at AC at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum ot AC-2 maximum at AC-4 maximum ot AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 39.4 kV-A 49.2 kV-A 40.2 kus minimum cross-section acc. to AC-1 rated value 40.5 AC-1 rated value 41.5 kV-A 45.3 kV-A 45	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 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 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum slimited to 60 s switching frequency at AC at AC at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage at SC Hz rated value 49.2 kV-A 56.1 kV-A 56.1 kV-A 56.2 kV-A 56.3 kV-A 56.2 kV-A 56.3 kV-A 56.2 kV-A 56.2 kV-A 56.3 kV-A 56.2 kV-A	 up to 230 V for current peak value n=20 rated value 	22.6 kV·A
• 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 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 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 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 • limite	 up to 400 V for current peak value n=20 rated value 	39.4 kV·A
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 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 • 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 **O-load switching frequency • at AC • at C-1 maximum **O0 1/h • at AC-2 maximum **O0 1/h • at AC-3 maximum **O0 1/h • at AC-4 maximum **Oontrol circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	 up to 500 V for current peak value n=20 rated value 	49.2 kV·A
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 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 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 share in the following frequency at AC at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 15.1 kV·A 26.2 kV·A 32.8 kV·A 45.3 kV·A 45.3 kV·A	 up to 690 V for current peak value n=20 rated value 	56.1 kV·A
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 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 m	operating apparent power at AC-6a	
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 ilmited to 1 s switching at zero current maximum ilmited to 1 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at zero current maximum illited to 60 s switching at zero current maximum illited to 60 s switching at zero current maximum illited to 60 s switching at zero current maximum illited to 60 s switching at zero current maximum illited to 60 s switching	 up to 230 V for current peak value n=30 rated value 	15.1 kV·A
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-1 maximum • at AC-1 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-1 maximum • at AC-1 maximum • a	 up to 400 V for current peak value n=30 rated value 	26.2 kV·A
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 oload switching frequency • at AC • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-7 maximum • at A	 up to 500 V for current peak value n=30 rated value 	32.8 kV·A
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 • limited to 60 s switching at zero current maximum no-load switching frequency • at AC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 NZ Tated value 1 500 1/h • at AC-6 maximum • at AC-6 Maximum • at AC-7 Maximum • at AC-8 maximum • at AC-8 maximum • at AC-9 voltage of the control supply voltage • at 50 Hz rated value 83 155 V	 up to 690 V for current peak value n=30 rated value 	45.3 kV·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 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 voltage of the control supply voltage AC/DC AC/DC at 50 Hz 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 AC at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum AC-DC control circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value 	 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 mother of the control supply voltage AC/DC AC/DC Control supply voltage at AC at 50 Hz rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value AC-1 rated value 800 1/h AC DC AC/DC AC/DC AC/DC AC/DC 	 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 mother of the control supply voltage AC/DC AC/DC Control supply voltage at AC at 50 Hz rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value AC-1 rated value 800 1/h 400 1/h AC/DC AC/DC AC/DC AC/DC AC/DC 	 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency • at AC • at DC 1 500 1/h operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value 1 500 1/h 800 1/h 400 1/h 400 1/h AC/DC Control Supply voltage at AC • at 50 Hz rated value 83 155 V		336 A; Use minimum cross-section acc. to AC-1 rated value
 at AC at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value 83 155 V 	 limited to 60 s switching at zero current maximum 	272 A; Use minimum cross-section acc. to AC-1 rated value
● at DC operating frequency ● at AC-1 maximum ● at AC-2 maximum ● at AC-3 maximum ● at AC-3 maximum ● at AC-4 maximum ○ at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC ● at 50 Hz rated value 1 500 1/h 800 1/h 700 1/h 200 1/h Control circuit/ Control 800 1/h AC/DC	no-load switching frequency	
operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value 83 155 V	• at AC	1 500 1/h
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum 200 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 83 155 V 	• at DC	1 500 1/h
 at AC-2 maximum at AC-3 maximum at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 400 1/h AC/DC 83 155 V 		
 at AC-3 maximum at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 83 155 V 	• at AC-1 maximum	800 1/h
◆ at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage		400 1/h
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value AC/DC 83 155 V	• at AC-3 maximum	700 1/h
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value AC/DC 83 155 V		200 1/h
control supply voltage at AC	Control circuit/ Control	
• at 50 Hz rated value 83 155 V	type of voltage of the control supply voltage	AC/DC
● at 60 Hz rated value 83 155 V	• at 50 Hz rated value	83 155 V
	at 60 Hz rated value	83 155 V

control supply voltage at DC	
rated value	83 155 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	1.5 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.45 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	12 mA
	12 IIIA
apparent pick-up power of magnet coil at AC	40.1/ A
• at 50 Hz	40 V-A
• at 60 Hz	40 V·A
apparent holding power of magnet coil at AC	
● at 50 Hz	2 V·A
● at 60 Hz	2 V·A
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	45 70 ms
• at DC	45 60 ms
opening delay	
• at AC	35 55 ms
- 51710	
• at DC	35 55 ms
	35 55 ms 10 20 ms
• at DC	
at DC arcing time control version of the switch operating mechanism	10 20 ms
• at DC arcing time	10 20 ms
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts	10 20 ms Standard A1 - A2
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	10 20 ms Standard A1 - A2
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	10 20 ms Standard A1 - A2
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	10 20 ms Standard A1 - A2
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	10 20 ms Standard A1 - A2 1 1 1 10 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
■ at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 ■ at 230 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 690 V rated value □ at 24 V rated value ■ at 48 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 600 V rated value ■ at 600 V rated value □ at 24 V rated value □ at 220 V rated value □ at 24 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value	10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 220 V rated value at 600 V rated value	10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 240 V rated value at 48 V rated value at 49 V rated value at 49 V rated value at 49 V rated value at 40 V rated value at 40 V rated value at 40 V rated value	10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 220 V rated value at 600 V rated value	10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 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	readly switching per 100 million (17 V, 1 mill)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
at 400 V rated value at 600 V rated value	52 A
yielded mechanical performance [hp]	OL IX
• for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded partsforwards	10 mm
	10 mm 10 mm
— upwards — at the side	6 mm
— at the side — downwards	10 mm
for live parts	17 11111
— 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	spring-loaded terminals
at contactor for auxiliary contacts	Spring-tope terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	, , , , , , , , , , , , , , , , , , , ,
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)

 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 14)
 AWG number as coded connectable conductor cross section for main contacts 	18 1
 AWG number as coded connectable conductor cross section for auxiliary contacts 	20 14
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
with high demand rate acc. to SN 31920	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function	
 mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5-1 	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use safety-related switching OFF	Yes
Certificates/ approvals	

General Product Approval







Miscellaneous

<u>KC</u>



EMC Declaration of Conformity Test Certificates Marine / Shipping





Miscellaneous

Special Test Certificate Type Test
Certificates/Test
Report



Marine / Shipping













Confirmation

Confirmation

Further information

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=3RT2037-3NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3NF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3NF30

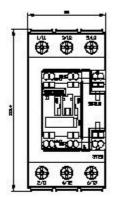
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

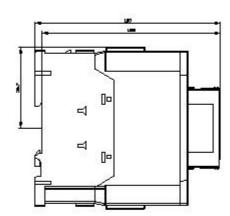
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3NF30&lang=en

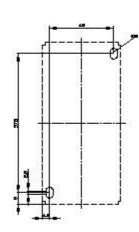
Characteristic: Tripping characteristics, I2t, Let-through current

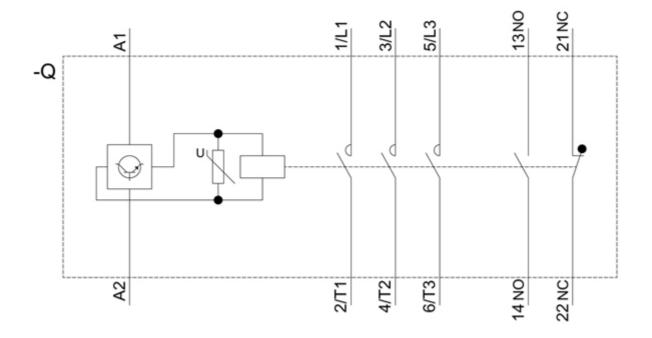
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3NF30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3NF30&objecttype=14&gridview=view1









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