SIEMENS

Data sheet 3RT2035-3AP00



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal

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 	6.6 W
 at AC in hot operating state per pole 	2.2 W
 without load current share typical 	16 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
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 maximum	95 %
Main circuit	

intumber of Police for Main Current circuit intumber of Wood protective for main current circuit intumber of Wood protective for main current operating vottage at AC-3 rated value maximum at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-3 at 400 V at ambient temperature 60 °C rated value at AC-3 at 400 V rated value at AC-3 at 100 680 V rated value n=20 rated value at AC-3 at 100 00 V for current peak value n=20 rated value at AC-3 at 100 00 V for current peak value n=30 rated value at AC-3 at 100 00 V for current peak value n=30 rated value at AC-3 at 100 00 V for current peak value n=30 rated value at AC-3 at 100 00 V for current peak value n=30 rated value at 100 V rated value at 1		0
operating voltage	number of poles for main current circuit	3
• at AC-3 rated value maximum • at AC-3 rated value maximum • at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 • at AC-1 • at AC-1 • at AC-1 • at 00 V at ambient temperature 60 °C rated value • up to 690 V at ambient temperature 60 °C rated value • up to 690 V at ambient temperature 60 °C rated value • at AC-3 • at 400-7 stade value • at 500 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V rated value • at AC-3 au to 600 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=20 rated value • au to 100 V for current peak value n=30 rated value • au to 400 V rated value • au to 500 V for current peak value n=30 rated value • au to 400 V rated value • a		3
■ at AC-3e rated value maximum opporational current ■ at AC-1 at 400 V at ambient temperature 40 °C rated value ■ at AC-1 ■ up to 890 V at ambient temperature 40 °C rated value ■ up to 890 V at ambient temperature 60 °C rated value ■ up to 890 V at ambient temperature 60 °C rated value ■ at AC-3 ■ at 400 V rated value ■ at 690 V rated value ■ at 400 V rated value ■ at AC-3 ■ at 400 V rated value ■ at 690 V rated value ■ at AC-3 ■ at 400 V rated value ■ at AC-3 ■ at 400 V rated value ■ at AC-5 up to 400 V rated value ■ at AC-5 up to 400 V rated value ■ at AC-5 up to 400 V rated value ■ at AC-5 up to 400 V ror current peak value n=20 rated value ■ up to 230 V for current peak value n=20 rated value ■ up to 900 V for current peak value n=20 rated value ■ up to 900 V for current peak value n=20 rated value ■ up to 900 V for current peak value n=30 rated value ■ up to 900 V for current peak value n=30 rated value ■ up to 900 V for current peak value n=30 rated value ■ up to 900 V for current peak value n=30 rated value ■ up to 900 V for current peak value n=30 rated value ■ up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V for current peak value n=30 rated value ■ at AC-6 up to 900 V f		000.17
operational current		
** at AC-1 at 400 V at ambient temperature 40 °C rated value ** at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 590 V at ambient temperature 60 °C rated value — up to 590 V at ambient temperature 60 °C rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — up to 680 V rated value — up to 680 V rated value — up to 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=20 rated value — up to 680 V for current peak value n=20 rated value — up to 580 V for current peak value n=20 rated value — up to 580 V for current peak value n=30 rated value — up to 580 V for current peak value n=30 rated value — up to 580 V for current peak value n=30 rated value — up to 580 V for current peak value n=30 rated value — up to 580 V for current peak value n=30 rated value — up to 580 V for current peak value n=30 rated value — up to 580 V for current peak value n=30 rated value — up to 580 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 200 V for current peak value n=30 rated value — up to 200 V for current peak value n=30 rated value — up to 400 V for devalue — at 60 V rated value — at 60 V		690 V
rated value — up to 590 V at ambient temperature 40 °C rated value — up to 590 V at ambient temperature 60 °C rated value — at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 41 A — at 500 V rated value — at 41 A — at 500 V rated value — at 41 A — at 500 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — at AC-3a — at 400 V rated value — at AC-3a — at 400 V rated value — at AC-3a — 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 —	•	00.4
e at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 990 V at ambient temperature 60 °C rated value e at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at AC-3e up to 690 V rated value — at AC-3e up to 690 V rated value — at AC-5e up to 690 V rated value — at AC-5e up to 690 V rated value — at AC-5e up to 690 V rated value — at AC-5e up to 690 V rated value — up to 230 V for current peak value n=20 rated value — up to 590 V for current peak value n=20 rated value — up to 590 V for current peak value n=30 rated value — up to 100 V for current peak value n=30 rated value — up to 590 V for current peak value n=30 rated value — up to 100 V for current peak value n=30 rated value — up to 100 V for current peak value n=30 rated		60 A
— up to 890 V at ambient temperature 40 °C rated value — up to 890 V at ambient temperature 80 °C rated value • at AC-3 — at 400 V rated value • at 500 V rated value — at 590 V rated value — at 590 V rated value — at 690 V rated value — at AC-4 at 400 V rated value — at AC-5 au pto 690 V rated value — at AC-6 au pto 690 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 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 V		
rated value — up to 800 vt ambient temperature 60 °C rated value — at 400 V rated value — at 500 V rated value — at 600 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 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value —		60 Δ
rated value		00 A
rated value	— up to 690 V at ambient temperature 60 °C	55 A
at 400 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 400 V rated value at 600 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=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 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 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 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 at 600 V rated value n=30 rated value nup to 690 V for current peak value n=30 rated value nup to 690 V for current peak value n=		
	• at AC-3	
at 690 V rated value - at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 670 V rourrent peak value n=20 rated value up to 590 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 590 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 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 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 at 600 V rated value at 600	— at 400 V rated value	41 A
at AG-3a — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value 3t AG-4 at 400 V rated value 3t AG-5a up to 800 V rated value 33.2 A at AG-5a up to 800 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 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value value — up to 690 V for current peak value n=30 rated valu	— at 500 V rated value	41 A
at 400 V rated value	— at 690 V rated value	24 A
at 500 V rated value	• at AC-3e	
- at 690 V rated value	— at 400 V rated value	41 A
at AC-4 at 400 V rated value at AC-5u p to 690 V rated value at AC-5u p to 400 V rated value at AC-5u p to 400 V rated value at AC-5u p to 400 V rated value n=20 rated value — up to 300 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 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 — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 110 V rated value — at 22 V rated value — at 22 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated valu	— at 500 V rated value	
• at AC-5a up to 690 V rated value • at AC-5b up to 200 V rated value • at AC-5b up to 200 V for current peak value n=20 rated value — up to 200 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 • 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 — 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 — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 600 V rated value — at 400 V rated value — at 20 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at		
at AC-5b up to 400 V rated value at AC-5b up to 400 V for current peak value n=20 rated value — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 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=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 — 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 — at 400 V rated value — at 400 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 55 A — at 220 V rated value — at 440 V rated value — at 60 V rated val		
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 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 200 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 — up to 690 V for current peak value n=30 rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at 7 Current path at DC-1 — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 400 V rated value — at 220 V rated value — at 24 V rated value — at 60 V rated		
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 200 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 rated value		33.2 A
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 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 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 value value up to 690 V for value value at 490 V rated value at 600 V rated value at 440 V rated value at 600 V rated value		36.5 A
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 ● at AC-6a — 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 — up to 690 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 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 — at 600 V rated value — at 100 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 60 V rated value — at 24 V rated value — at 60 V rated val		26 5 4
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 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 valu		30.3 A
value — up to 690 V for current peak value n=20 rated value • 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 — 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 — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 600 V rated value — at 60 V rated value — at 60 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 60 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 60 V rated value — at 24 V rated value — at 60 V rated value —		36.5 A
• 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 — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value operational current for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value ■ at 690 V rated value ■ at 10 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 25 A ■ with 2 current paths in series at DC-1 — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — 55 A ■ 56 A ■ 600 V rated value — 600 V rated value — 600 V rated value — 75 A ■ 600 V rated value — 75 A ■ 75 A		
• 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 — 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 — operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 60 V rated value — at 440 V rated value — at 60 V rated value — at 60 V rated value — at 440 V rated value — at 55 A	 up to 690 V for current peak value n=20 rated 	24 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 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 nated va	value	
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 operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value — at 55 A — at 80 V rated value — at 410 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — 55 A — at 600 V rated value — 55 A — at 220 V rated value — 55 A — at 220 V rated value — 55 A — at 220 V rated value — 55 A	• 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 - up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 - at 24 V rated value - at 60 V rated value - at 400 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rate		24.2 A
value 24.2 A — up to 500 V for current peak value n=30 rated value 24.2 A — up to 690 V for current peak value n=30 rated value 24 A minimum cross-section in main circuit at maximum AC-1 rated value 16 mm² operational current for approx. 200000 operating cycles at AC-4 22 A • at 400 V rated value 18.5 A operational current 41 8.5 A operational current path at DC-1 55 A — at 24 V rated value 23 A — at 60 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 55 A — at 60 V rated value 45 A — at 220 V rated value 45 A — at 220 V rated value 5 A — at 440 V rated value 5 A — at 60 V rated value 5 A — at 60 V rated value 5 A — at 24 V rated value 5 A — at 600 V rated value 5 A — at 24 V rated value 5 A — at		04.0.4
- up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 60 V rated value — 55 A — at 440 V rated value — 50 A — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 600		24.2 A
value		24 2 A
walue minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4		
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 22 A • at 690 V rated value 18.5 A operational current • at 1 current path at DC-1 — at 24 V rated value 23 A — at 110 V rated value 4.5 A — at 220 V rated value 1A — at 440 V rated value 1A — 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 10 V rated value 55 A • at 10 V rated value 55 A • with 2 current paths in series at DC-1 — at 24 V rated value 45 A — at 110 V rated value 55 A — at 440 V rated value 55 A — at 600 V rated value 55 A — at 440 V rated value 55 A — at 440 V rated value 55 A — at 600 V rated value 55 A — at 440 V rated value 55 A • with 3 current paths in series at DC-1 — at 24 V rated value 55 A	 up to 690 V for current peak value n=30 rated 	24 A
rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 600 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 22 V rated value — at 600 V rated value — at 22 V rated value — at 600 V	value	
operational current for approx. 200000 operating cycles at AC-4		16 mm²
e at 400 V rated value		
 at 400 V rated value at 690 V rated value 18.5 A operational current at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value 		
• at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 2 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 120 V rated value — at 60 V rated value — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value 55 A		22 A
operational current		
• at 1 current path at DC-1 — at 24 V rated value 55 A — at 60 V rated value 23 A — at 110 V rated value 4.5 A — at 220 V rated value 1 A — at 440 V rated value 0.4 A — at 600 V rated value 0.25 A • with 2 current paths in series at DC-1 — at 24 V rated value 45 A — at 110 V rated value 45 A — at 110 V rated value 45 A — at 220 V rated value 5 A — at 440 V rated value 5 A — at 440 V rated value 5 A — at 460 V rated value 5 A — at 220 V rated value 5 A — at 440 V rated value 5 A — at 440 V rated value 5 A — at 440 V rated value 5 A • with 3 current paths in series at DC-1 — at 24 V rated value 55 A		
- at 24 V rated value 55 A - at 60 V rated value 23 A - at 110 V rated value 4.5 A - at 220 V rated value 1 A - at 440 V rated value 0.4 A - at 600 V rated value 0.25 A • with 2 current paths in series at DC-1 - at 24 V rated value 55 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 5 A - at 24 V rated value 45 A - at 24 V rated value 5 A - at 440 V rated value 5 A - at 450 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 5 A - at 24 V rated value 5 A - at 24 V rated value 55 A - at 24 V rated value 55 A	•	
- at 60 V rated value 23 A - at 110 V rated value 4.5 A - at 220 V rated value 1 A - at 440 V rated value 0.4 A - at 600 V rated value 0.25 A • with 2 current paths in series at DC-1 - at 24 V rated value 45 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 5 A - at 440 V rated value 45 A - at 440 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 1 A - at 600 V rated value 5 A - at 440 V rated value 55 A - at 440 V rated value 55 A - at 440 V rated value 55 A		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 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 55 A - at 440 V rated value 1 A - at 600 V rated value 1 A - at 24 V rated value 55 A • with 3 current paths in series at DC-1 - at 24 V rated value 55 A		
- at 440 V rated value 0.4 A - at 600 V rated value 0.25 A • with 2 current paths in series at DC-1 - at 24 V rated value 55 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 220 V rated value 5 A - at 440 V rated value 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	4.5 A
 — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value 55 A 	— at 220 V rated value	1 A
 with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value with 3 current paths in series at DC-1 at 24 V rated value 55 A 	— at 440 V rated value	0.4 A
 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value 55 A 	— at 600 V rated value	0.25 A
 — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value 55 A 	 with 2 current paths in series at DC-1 	
 — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value 45 A 5 A ■ 0.8 A ■ 55 A 	— at 24 V rated value	55 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 60 V rated value	45 A
 — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value 55 A 	— at 110 V rated value	45 A
 — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value 55 A 	— at 220 V rated value	
• with 3 current paths in series at DC-1 — at 24 V rated value 55 A		
— at 24 V rated value 55 A		0.8 A
	-	
— at 60 V rated value 55 A		
	— at 60 V rated value	55 A

— at 110 V rated value	55 A
— at 110 V rated value — at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	1.171
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	0.0071
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	14.5 kVA
 up to 400 V for current peak value n=20 rated value 	25.2 kVA
• up to 500 V for current peak value n=20 rated value	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	0.011/4
• up to 230 V for current peak value n=30 rated value	9.6 kVA
• up to 400 V for current peak value n=30 rated value	16.8 kVA
• up to 500 V for current peak value n=30 rated value	21 kVA
• up to 690 V for current peak value n=30 rated value	28.6 kVA
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	843 A; Use minimum cross-section acc. to AC-1 rated value
limited to 1's switching at zero current maximum limited to 5's switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 3 s switching at zero current maximum Imited to 10 s switching at zero current maximum	400 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	241 A; Use minimum cross-section acc. to AC-1 rated value
limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1.55, 550 Hillimitan 5.555 500tion 650. to 710 Trated value
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
at AC-3e maximum	1 000 1/h

at AC-4 maximum	300 1/h
Control circuit/ Control	
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
• at 50 Hz rated value	230 V
operating range factor control supply voltage rated	200 V
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	190 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
apparent holding power of magnet coil at AC	
● at 50 Hz	16 VA
inductive power factor with the holding power of the	
coil ● at 50 Hz	0.37
	0.57
closing delay	10 80 ms
opening delay	10 00 1113
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	40.4
at 230 V rated value	10 A
• at 400 V rated value	3 A
at 500 V rated value at 500 V rated value	2 A
 at 690 V rated value operational current at DC-12 	1 A
• at 24 V rated value	10 A
at 48 V rated value	6 A
at 40 V rated value at 60 V rated value	6 A
at 110 V rated value	3 A
at 115 V rated value at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
 at 600 V rated value 	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
• for single-phase AC motor	O.h.
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	10 hn
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value— at 575/600 V rated value	30 hp
— at 373/000 v rated value	40 hp

contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415
with the of a sign was to 0 as wised	V, 80 kA)
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
mounting position	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 1.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 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	
AWG number as coded connectable conductor cross	18 1
AWG number as coded connectable conductor cross section	18 1 20 14
AWG number as coded connectable conductor cross section • for main contacts	

• mirror contact according to IEC 60947-4-1

 positively driven operation according to IEC 60947-5-1

B10 value with high demand rate according to SN 31920 proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes

No

1 000 000

40 % 73 %

100 FIT

20 a

20 8

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Declaration of Conformity Test Certificates

Machinery



Type Examination
Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation

Confirmation

Vibration and Shock

<u>Transport Information</u>

Environmental Confirmations

Further information

Information on the packaging

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

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=3RT2035-3AP00

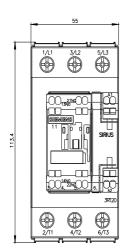
Cax online generator

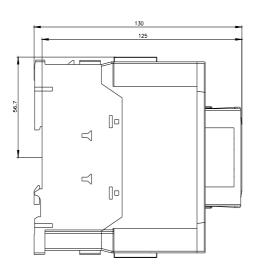
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

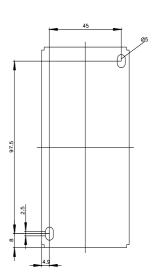
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AP00

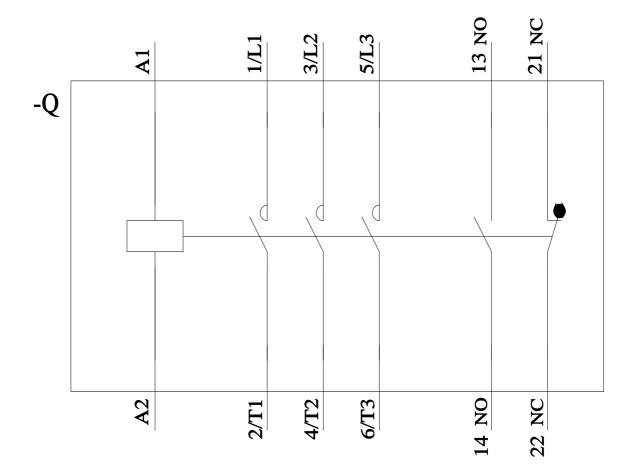
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT2035-3AP00&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current









last modified: 2/10/2023 🖸