3RT2025-1AK60-Z X95

## **Data sheet**



power contactor, AC-3 17 A, 7.5 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz, 120 V, 60 Hz, 3-pole, Size S0, screw terminal Reusable packaging = 48 units

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.6 W
<ul> <li>without load current share typical</li> </ul>	7.9 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

operating voltage	000.17
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	40.4
at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	40.4
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	47.4
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	47.4
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
at AC-4 at 400 V rated value	15.5 A
at AC-5a up to 690 V rated value	35.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	14.1 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	11.4 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	11.4 A
— up to 690 V for current peak value n=20 rated value	11.3 A
• at AC-6a	7.0 A
— up to 230 V for current peak value n=30 rated value	7.6 A
— up to 400 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1	7.6 A - 10 mm²
rated value	-
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	7.7 A
at 690 V rated value	7.7 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— 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	35 A
— at 110 V rated value	35 A
— at 110 V rated value  — at 220 V rated value	35 A
— at 220 v Tateu Value	33 A

- at 1 current path at DC-3 at DC-5 - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 640 V rated value - at 110 V rated value - at 110 V rated value - at 220 V rated value - at 600 V rated value - at 600 V rated value - at 640 V rated value - at 690	— at 440 V rated value	2.9 A
	— at 600 V rated value	1.4 A
	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
with 2 current paths in series at DC-3 at DC-5	— at 220 V rated value	1 A
with 2 current paths in series at DC-3 at DC-6	— at 440 V rated value	0.09 A
	— at 600 V rated value	0.06 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	-	35 A
	— at 110 V rated value	
	— at 220 V rated value	
■ with 3 current paths in series at DC-3 at DC-5     ■ at 24 V rated value     ■ at 110 V rated value     ■ at 220 V rated value     ■ at 220 V rated value     ■ at 400 V rated value     ■ at 600 V rated value     ■ at 800 V rated value     ■ at 800 V rated value     ■ at AC-2 at 400 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 300 V rated value     ■ at 500 V rated value     ■ at 600 V rated value     ■ at 600 V rated value     ■ at 600 V rated value     ■ at 800 V rated value     ■ at 800 V rated value     ■ at 400 V rated value     ■ at 800 V rated value     ■ at 800 V rated value     ■ at 900 V roc 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     ■ at 900 V rated value n=30 rated value     ■ at 900 V rated value     ■ at 900 V rated value n=30 rated value     ■ at 900 V rated value     ■ at 900 V rated value n=30 rated value     ■ at 900 V rated value     ■ at 900 V rated value     ■ at 900 V rated v		
• 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 400 V rated value — at 400 V rated value — at 600 V rated value — at 400 V rated value — 35 kW — at 500 V rated value — 4 kW — 4 t 500 V rated value — 4 t 500 V rated value — 4 t 500 V rated value — 5 kW — 4 t 500 V rated value — 4 t 500 V rated value — 4 t 500 V rated value — 5 kW — 4 t 500 V rated value — 5 kW — 6 t 500 V rated value — 6 t 500 V rated value — 6 t 500 V rated value — 7 kW — 1		
		0.107
- at 110 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at AC-2 at 400 V rated value - at 500 V rated value - at 600 V rated value - at 400 V rated value - at 500 V rated value - at 600 V rated value rated value rated value - at 600 V rated value rated value rated value - at 600 V rated value rated value rated value - at 600 V rated value rated value rated value - at 600 V rated value rated value rated value - at 600 V rated value rated value - at 600 V rated value rated value - a	•	25 A
operating power  at AC-2 at 400 V rated value  at AC-3  — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 500 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 800 V rated value — at 690 V rated value — at 800 V rated value  at 800 V rated value  225 A; Use m		
operating power  • at AC-2 at 400 V rated value  • at AC-3  — at 230 V rated value  — at 400 V rated value  — at 690 V rated value  — at 690 V rated value  — at 400 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  — by to 200 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 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current peak value n=20 rated value  • up to 600 V for current pe		
at AC-2 at 400 V rated value at AC-3 at AC-3 at AC-3 at 400 V rated value at 690 V rated value at AC-3e at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value at 600 V for current peak value n=20 rated value at 690 V rated value be at 690 V for current peak value n=20 rated value at 00 V for current peak value n=20 rated value at 00 V for current peak value n=20 rated value at 00 V for current peak value n=30 rated value at 00 V for current peak value n=30 rated value at 00 V for current peak value n=30 rated value at 00 V for current peak value n=30 rated value be up to 690 V for current peak value n=30 rated value at 00 S witching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 30 s switching at zero current maximum at limited to 30 s switching at zero current maximum at limited to 30 s switching at zero current maximum at 15 A; Use minimum cross-section acc. to AC-1 rated value at AC-1 maximum at AC-2 maximum		U.0 A
at AC-3  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at AC-3e  at 230 V rated value  at AC-3e  at 230 V rated value  at AC-3e  at 400 V rated value  at 400 V rated value  at 690 V rated value  at 690 V rated value  at 590 V rated value  at 590 V rated value  at 690 V rated value  at 690 V rated value  3.5 kW  at 400 V rated value  at 690 V rated value  be at 690 V rated value  at 690 V rated value  at 690 V rated value  be at 690 V rated value  at 690 V rated value  be at 690 V rated value  at 690 V rated value  be at 690 V rated value  be at 690 V rated value  coperating apparent power at AC-6a  coperating apparent power at AC-6a  coperating apparent peak value n=20 rated value  coperating apparent power at AC-6a  coperating apparent peak value n=20 rated value  coperating apparent power at AC-6a  coperating apparent peak value n=30 rated value  coperating apparent peak value n=30 rated value  coperating apparent power at AC-6a  coperating at zero current maximum  colload switching frequency  colload at AC-2 maximum  at AC-2 maximum  at AC-2 maximum  brief to 10 s switching at zero current maximum  at AC-2 maximum  1000 1/h  1000 1/h  1000 1/h  11 kW  4 s kW  4 s kW  5 kW		
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value		7.5 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value  • at AC-3e  - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690		
- at 500 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value		
- at 690 V rated value  - at 40.3e  - at 230 V rated value  - at 400 V rated value  - at 500 V rated value  - at 690 V rated value  - at 400 V rated value  - at 690 V rated value  - at 400 V for current peak value n=20 rated value  - at 400 V for current peak value n=30 rated value  - at 400 V for current peak value n=30 rated value  - at 4.5 kWA  - 3.5 kW  - 4.5 kVA  - 4.5 kVA  - 3.6 kVA  - 3.6 kVA  - 3.8 kVA  - 3	— at 400 V rated value	7.5 kW
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value at 690 V rated value at 600 V rated value bup to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 40 °C illimited to 1 s switching at zero current maximum illimited to 10 s switching at zero current maximum illimited to 30 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 s switching at zero current maximum illimited to 60 switching at zero current maximum illimited to 60 switching at zero cu	— at 500 V rated value	7.5 kW
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 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=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 value n=30 rated value • 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 500 V for current peak value n=30 rated value • up to 690 V sor current peak value n=30 rated value • 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 val	— at 690 V rated value	11 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC  operating frequency • at AC-1 maximum • at AC-2 maximum  1 000 1/h  1 000 1/h	• at AC-3e	
- at 500 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 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 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 • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum	— at 230 V rated value	4 kW
- 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 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=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 • limited to 10 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 50 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 a	— at 400 V rated value	4.5 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 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 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 • 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	— at 500 V rated value	7.5 kW
at AC-4  • at 400 V rated value • at 690 V rated value  • operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 40 0 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 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 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 maximu	— at 690 V rated value	11 kW
operating apparent power at AC-6a     oup to 230 V for current peak value n=20 rated value     oup to 400 V for current peak value n=20 rated value     oup to 500 V for current peak value n=20 rated value     oup to 500 V for current peak value n=20 rated value     oup to 690 V for current peak value n=20 rated value     oup to 230 V for current peak value n=30 rated value     oup to 400 V for current peak value n=30 rated value     oup to 500 V for current peak value n=30 rated value     oup to 500 V for current peak value n=30 rated value     oup to 500 V for current peak value n=30 rated value     oup to 690 V for current peak value n=30 rated value     oup to 500 V for current peak value n=30 rated value     oup to 690 V for current peak value n=30 rated value     oup to 6		
operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited t	<ul> <li>at 400 V rated value</li> </ul>	3.5 kW
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> &lt;</ul>	• at 690 V rated value	6 kW
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li< td=""><td>operating apparent power at AC-6a</td><td></td></li<></ul>	operating apparent power at AC-6a	
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>li</li></ul>	• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a      • up to 230 V for current peak value n=30 rated value     • up to 400 V for current peak value n=30 rated value     • up to 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     • 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	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 6	• up to 500 V for current peak value n=20 rated value	9.9 kVA
operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 6	·	
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 40 °C      imited to 1 s switching at zero current maximum     ilmited to 5 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 swi		
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 1</li></ul>		3 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>loo0 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>1000 1/h</li> </ul>	·	
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>li</li></ul>		
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  operating frequency • at AC-1 maximum  1 000 1/h • at AC-2 maximum  225 A; Use minimum cross-section acc. to AC-1 rated value  225 A; Use minimum cross-section acc. to AC-1 rated value  5 000 1/h  1000 1/h  1000 1/h	·	
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li></ul>	short-time withstand current in cold operating state	
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>mo-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>	•	225 A: Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>180 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>15 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>5 000 1/h</li> <li>1000 1/h</li> <li>1000 1/h</li> </ul>	-	
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>115 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>96 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>	-	
<ul> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>		
no-load switching frequency	_	
● at AC 5 000 1/h  operating frequency  ● at AC-1 maximum 1 000 1/h  ● at AC-2 maximum 1 000 1/h		OO 7, OOC HIIIIIII GOOD OCCUON ACC. TO AC-1 Tated Value
operating frequency           ● at AC-1 maximum         1 000 1/h           ● at AC-2 maximum         1 000 1/h		5 000 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>		0 000 1/11
• at AC-2 maximum 1 000 1/h		1 000 1/b
• at AC-3 maximum 1 000 1/h		
• at AC-3e maximum 1 000 1/h		
• at AC-4 maximum 300 1/h	• at AC-4 maximum	300 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	68 VA
● at 60 Hz	67 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
● at 60 Hz	0.74
apparent holding power of magnet coil at AC	
● at 50 Hz	7.9 VA
● at 60 Hz	6.5 VA
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
● at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-12 maximum	
• at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 175 V rated value     at 125 V rated value	2 A
at 220 V rated value	1 A
- at LEO V rated Value	0.15 A
at 600 V rated value	*****
at 600 V rated value  operational current at DC-13	
at 600 V rated value  operational current at DC-13      at 24 V rated value	10 A
operational current at DC-13  • at 24 V rated value	10 A 2 A
<ul> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	10 A 2 A 2 A
<ul> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	2 A 2 A
<ul> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	2 A 2 A 1 A
<ul> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	2 A 2 A 1 A 0.9 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	2 A 2 A 1 A 0.9 A 0.3 A
operational current at DC-13  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 110 V rated value  • at 125 V rated value  • at 220 V rated value  • at 600 V rated value	2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 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	2 A 2 A 1 A 0.9 A 0.3 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 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  Contact reliability of auxiliary contacts  UL/CSA ratings	2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 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 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 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  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value	2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 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 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>— at 110/120 V rated value</li> </ul>	1 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
<ul> <li>at 200/208 V rated value</li> </ul>	3 hp
<ul> <li>at 220/230 V rated value</li> </ul>	5 hp
<ul> <li>— at 460/480 V rated value</li> </ul>	10 hp
— at 575/600 V rated value	15 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
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	85 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections	o. o. gpo tominato
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	(. · · · · · · · · · · · · · · · · ·
• solid	1 10 mm²
• stranded	1 10 mm²
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary	1 IV IIIIII
solid or stranded	0.5 2.5 mm <sup>2</sup>
♥ SUIIU UI SII aI IUEU	0.5 2.5 mm²

<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
<ul> <li>for main contacts</li> </ul>	16 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	Yes
<ul> <li>safety-related switching OFF</li> </ul>	Yes
Certificates/ approvals	
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=3RT2025-1AK60-Z X95

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1AK60-Z X95

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AK60-Z X95

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

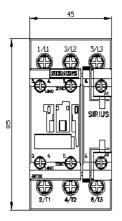
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2025-1AK60-Z X95&lang=en

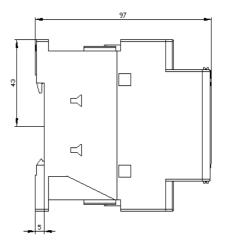
Characteristic: Tripping characteristics, I2t, Let-through current

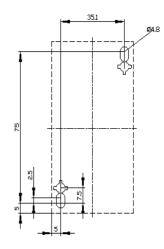
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AK60-Z X95/char

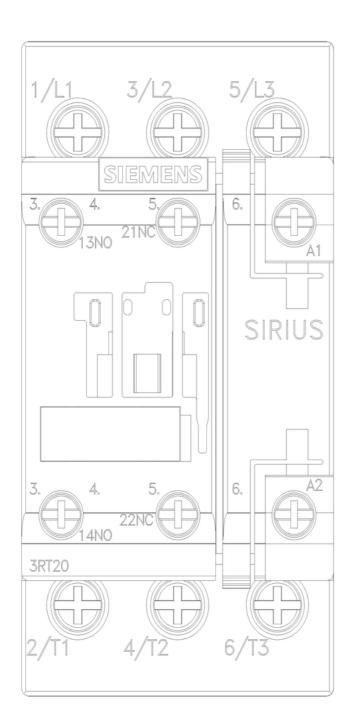
Further characteristics (e.g. electrical endurance, switching frequency)

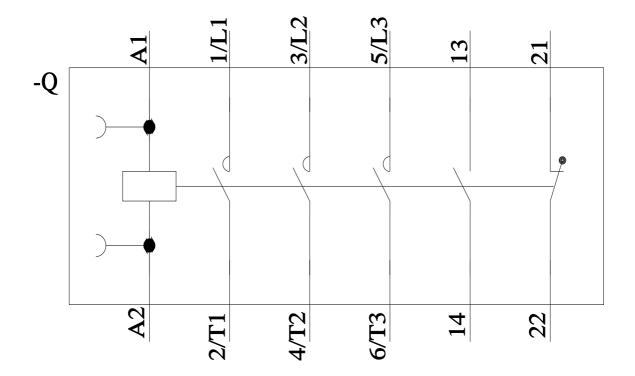
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AK60-Z X95&objecttype=14&gridview=view1











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