# **SIEMENS**

Data sheet 3RT2046-1NE30



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 48-80 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul><li>auxiliary switch</li></ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	19.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.6 W
<ul> <li>without load current share typical</li> </ul>	3.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
of main circuit rated value	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating 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)	03/01/2017
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 %

number of Poles for main current circuit sumber of No Contacts for main contacts operating voltage  ■ at AC-3 rated value maximum ■ at AC-3 rated value maximum ■ at AC-3 rated value maximum ■ at AC-3 rated value ■ at AC-1 4 400 V at ambient temperature 40 °C rated value — up to 680 V at ambient temperature 60 °C rated value — up to 680 V at ambient temperature 60 °C rated value ■ at AC-3 ■ at 400 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at AC-3 at 400 V rated value ■ at AC-3 at 40	Main circuit	
Operation   Voltage	number of poles for main current circuit	3
* al AC-3 reted value maximum * al AC-3 retade value maximum * al AC-1 at 400 V at ambient temperature 40 °C rated value * al AC-1 — up to 690 V at ambient temperature 60 °C rated value * al AC-1 — up to 690 V at ambient temperature 60 °C rated value — up to 690 V rated value — at 500 V rated value — at 500 V rated value — at 400 V rated value — at 500 V rated value — at 400 V rated value — at 500 V rated value — at 1000 V rated value — at 600 V rated value — up to 600 V 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=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value — at 600 V for current peak value — at 600 V rated value — at 600	number of NO contacts for main contacts	3
a at AC-3e rated value maximum operational current a at AC-1 at 400 V at ambient temperature 40 °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  a ta AC-3 — at 400 V rated value a at 40-3 — at 400 V rated value — at 500 V rated value — at 1000 V rated value — 30 A — at 100 to 100 V rourrent 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 — at 660 V rated value — at 660 V rated value — at 650 V rated value — at 600 V rated value — at 100 V rated value		
September   Sept	<ul> <li>at AC-3 rated value maximum</li> </ul>	
and AC-1 at 400 V at ambient temperature 40 °C rated value		1 000 V
rated value	•	
at AC-1     — up to 680 V at ambient temperature 40 °C rated value     — up to 680 V at ambient temperature 60 °C rated value     — up to 680 V at ambient temperature 60 °C rated value     — at 400 V rated value     — at 500 V rated value     — at 600 V rated value     — at 1000 V rated value     — at 1000 V rated value     — at 1000 V rated value     — at 500 V rated value     — at 500 V rated value     — at 500 V rated value     — at 600 V rated value     — at 1000 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 680 V for current peak value n=20 rated value     — up to 680 V for current peak value n=30 rated value     — up to 680 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     — up to 500 V for current peak value n=30 rated value     — at 600 V rated value     — at 600 V rated value     — at 600 V rated value     — at 600		130 A
rated value  — up to 690 V at ambient temperature 60 °C rated value  • at AC-3  — at 400 V rated value — at 590 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — up to 230 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 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=3		130 A
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rated value  at AC-3  — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 600 V rated value — at 1000 V rated value — up to 680 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 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=30 rated value — up to 680 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 680 V for current peak value n=30 r	— up to 690 V at ambient temperature 60 °C	110 A
at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 1000 V rated value at 500 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value at 600 V rated value at 220 V rated value at 240 V rated value at 220 V rated value at 240 V rated value at 240 V rated value at 600 V rated value		
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	— at 400 V rated value	
■ at 1000 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 609 V rated value ■ at 1000 V rated value ■ at AC-3 au pt 0 690 V rated value ■ at AC-5 up to 690 V rated value ■ at AC-5 up to 690 V rated value ■ up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=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 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 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=30 rated value — at 600 V rated v		
• at AC-3e    — at 400 V rated value    — at 500 V rated value    — at 690 V rated value    — at 690 V rated value    — at 1000 V rated value    — at 1000 V rated value    30 A    at AC-5a up to 690 V rated value    • at AC-5a up to 690 V rated value    • at AC-5a up to 690 V rated value    • at AC-5a    — up to 230 V for current peak value n=20 rated value    — up to 400 V for current peak value n=20 rated value    — up to 500 V for current peak value n=20 rated value    — up to 500 V for current peak value n=20 rated value    — up to 500 V for current peak value n=20 rated value    — up to 500 V for current peak value n=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 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — up to 690 V for current peak value n=30 rated value    — 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		
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- at 500 V rated value - at 690 V rated value 78 A		05.4
- at 690 V rated value - at 1000 V rated value 30 A   • at AC-4 at 40 V rated value 80 A   • at AC-5a up to 690 V rated value 95 A   • at AC-6a - up to 230 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 230 V for current peak value n=20 rated value 95 A   • at AC-6a - up to 230 V for current peak value n=30 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A   • at AC-6a - up to 500 V for current peak value n=30 rated value 95 A   • at 400 V faced value 95 A   • at 400 V rated value 42 A   • at 400 V rated value 95 A   • at 600 V rated value 96 A   • at 600 V rated value 97 A   • at 60 V rated value 97 A   • at 600 V rated value 98 A   • at 600 V rated value 99 A   • at 600 V rated value 90 A   • at 400 V rated v		
- at 1000 V rated value 80 A 80		
• at AC-4 at 400 V rated value • at AC-5a up to 690 V rated value • at AC-5b up to 400 V rated value • at AC-6a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=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 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — 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 100 V rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 60 V rated value — at 22 V rated value — at 220 V rated value — at 240 V rated value		
• at AC-5a up to 690 V rated value 95 A  • at AC-5b up to 400 V rated value 95 A  • at AC-6a  — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 10 consolve for current peak value n=30 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 — 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 V rated value — at 240 V rated value — at 440 V rated value		
■ at AC-5b up to 400 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     ■ 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     — up to 690 V for current peak value n=30 rated value     — 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 24 V rated value     — at 220 V rated value     — at 220 V rated value     — at 240 V rated value     — at 440 V rated value     — at 440 V rated value     — at 600 V rated valu		
■ 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=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 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 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  — at 690 V rated value  — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 240 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 230 V for current peak value n=30 rated value - up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - 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 440 V rated value - at 440 V rated value - at 100 V rated value - at 100 V rated value - at 24 V rated value - at 20 V rated value - at 20 V rated value - at 20 V rated value - at 440 V rated value - at 60 V rated value - at		
- 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 590 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value • 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 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 - operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value - at 60 V rated value - at 60 V rated value - at 24 V rated value - at 20 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 24 V rated value		84.4 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 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 400 V rated value — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value  • with 2 current paths in series at DC-1 — at 24 V rated value  • with 2 current paths in series at DC-1 — at 24 V rated value  • with 2 current paths in series at DC-1 — at 24 V rated value  • with 2 current paths in series at DC-1	value	84.4 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 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 490 V rated value • at 690 V rated value — at 24 V rated value — at 60 V rated value — at 20 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value	value	84.4 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  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  operational current  at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value	value	58 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 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 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 400 V rated value - at 600 V rated value - at 22 V rated value - at 24 V rated 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  — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 400 V rated value — at 600 V rated value — at 24 V rated value		56.3 A
value	·	30.0 A
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 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 600 V rated value — at 600 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 220 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		56.3 A
walue 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 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 450 V rated value — at 200 V rated value — at 200 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 24 V rated value  • with 2 current paths in series at DC-1 — at 24 V rated value  100 A		56.3 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 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 440 V rated value  — at 600 V rated value  — at 24 V rated value  100 A	value	56.3 A
e at 400 V rated value 42 A  ■ at 690 V rated value 30 A  operational current  ■ at 1 current path at DC-1  — at 24 V rated value 100 A  — at 60 V rated value 60 A  — at 110 V rated value 9 A  — at 220 V rated value 2 A  — at 440 V rated value 0.6 A  — at 600 V rated value 0.6 A  — at 600 V rated value 100 A	rated value	50 mm <sup>2</sup>
<ul> <li>at 690 V rated value</li> <li>operational current</li> <li>at 1 current path at DC-1</li> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>— at 22 V rated value</li> <li>In 00 A</li> </ul>	cycles at AC-4	
operational current          • at 1 current path at DC-1	at 400 V rated value	
<ul> <li>at 1 current path at DC-1         <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1         <ul> <li>at 24 V rated value</li> <li>100 A</li> </ul> </li> </ul>		30 A
- at 24 V rated value 100 A - at 60 V rated value 60 A - at 110 V rated value 9 A - at 220 V rated value 2 A - at 440 V rated value 0.6 A - at 600 V rated value 0.4 A  • with 2 current paths in series at DC-1 - at 24 V rated value 100 A	•	
- at 60 V rated value 60 A - at 110 V rated value 9 A - at 220 V rated value 2 A - at 440 V rated value 0.6 A - at 600 V rated value 0.4 A  • with 2 current paths in series at DC-1 - at 24 V rated value 100 A	-	400 A
<ul> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>9 A</li> <li>2 A</li> <li>0.6 A</li> <li>0.4 A</li> <li>100 A</li> </ul>		
<ul> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>2 A</li> <li>0.6 A</li> <li>0.4 A</li> <li>100 A</li> </ul>		
<ul> <li>— at 440 V rated value</li></ul>		
<ul> <li>— at 600 V rated value</li> <li>• with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>100 A</li> </ul>		
• with 2 current paths in series at DC-1 — at 24 V rated value 100 A		
— at 24 V rated value 100 A		V.171
	-	100 A
— at ou viraled value	— at 60 V rated value	100 A
— at 110 V rated value 100 A		
— at 220 V rated value 10 A		
— at 440 V rated value 1.8 A		
— at 600 V rated value 1 A	— at 600 V rated value	1 A

<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 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>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	45 kW
• at AC-3	00.1114
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	00 1344
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	22 kW
at 690 V rated value	27.4 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	33 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	58 kVA
• up to 500 V for current peak value n=20 rated value	73 kVA
• up to 690 V for current peak value n=20 rated value	69 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	22.4 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	39 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	48.7 kVA
• up to 690 V for current peak value n=30 rated value	67.3 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 725 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 297 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	946 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	610 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	486 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	

140	4 000 4 11
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
<ul><li>at AC-1 maximum</li></ul>	900 1/h
<ul><li>at AC-2 maximum</li></ul>	350 1/h
<ul><li>at AC-3 maximum</li></ul>	850 1/h
<ul> <li>at AC-3e maximum</li> </ul>	850 1/h
<ul> <li>at AC-4 maximum</li> </ul>	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	48 80 V
at 60 Hz rated value	48 80 V
control supply voltage at DC	
• rated value	48 80 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
Initial value     full-scale value	0.8
operating range factor control supply voltage rated	1.1
value of magnet coil at AC	00.44
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	1.1 A
duration of inrush current peak	50 μs
locked-rotor current mean value	0.8 A
locked-rotor current peak	2.3 A
duration of locked-rotor current	150 ms
holding current mean value	15 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	151 VA
● at 60 Hz	151 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	3.5 VA
● at 60 Hz	3.5 VA
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	2.7 W
closing delay	
• at AC	50 70 ms
• at DC	50 70 ms
opening delay	
• at AC	38 57 ms
• at DC	38 57 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	
• at 230 V rated value	6 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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul><li>at 60 V rated value</li></ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A

### 1600 V rated value		
** 27 4 V rated value	<ul> <li>at 600 V rated value</li> </ul>	0.15 A
• at 8 V reted value	•	
e at 10 V rited value		
at 110 V rated value	<ul> <li>at 48 V rated value</li> </ul>	
* at 126 V rated value		
• at 220 V rated value	<ul> <li>at 110 V rated value</li> </ul>	1 A
a ti 500 V rated value contact reliability of auxiliary contacts  UDICSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  77 A  98 A  31 600 V rated value  98 A  77 A  99 A  78 A  99 A  79 A  90 A  9	<ul> <li>at 125 V rated value</li> </ul>	0.9 A
Contact reliability of auxilliary contacts  UUCSA ratings  Tull-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • of or single-phase AC motor  - at 110/120 V rated value • of 3-phase AC motor - at 110/120 V rated value • of 3-phase AC motor - at 200/280 V rated value • of 3-phase AC motor - at 200/280 V rated value • of 3-phase AC motor - at 200/280 V rated value • of 3-phase AC motor - at 250/280 V rated value - at 250/280 V rated value - at 250/280 V rated value - at 575/800 V rated value - with type of coordination 1 required - for short-circuit protection of the auxiliary switch required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the such at the such at the such at the short protection of the switch at the such at the short protection of the switch at the short	<ul> <li>at 220 V rated value</li> </ul>	0.3 A
Tubload current (FLA) for 3-phase AC motor	<ul> <li>at 600 V rated value</li> </ul>	0.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • of or single-phase AC motor  — at 110**120 V rated value • of or 3-phase AC motor — at 200280 V rated value • of or 3-phase AC motor — at 200280 V rated value • of or 3-phase AC motor — at 200280 V rated value — at 220230 V rated value — at 2575600 V rated value — at 480480 V rated value — at 1575600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required  fastenling method  fastenling method  side-by-side mounting • with side-by-side mounting • with side-by-side mounting — forwards — upwards — upwards — ownwards —	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value   96 A   77 A   valed value   78 A   valed value	UL/CSA ratings	
• at 480 V rated value   96 A   77 A   valed value   78 A   valed value	full-load current (FLA) for 3-phase AC motor	
yielded machanical performance (hp)  • for single-phase AC motor  — at 110/120 V rated value — at 220 V rated value — at 220/200 V rated value — at 220/203 V rated value — at 220/203 V rated value — at 20/2030 V rated value — at 257/600 V rated value — at 460/480 V rated value — at 57/600 V rated value — of an auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • side-by-side mounting  • side-by-side mounting  • with		96 A
• for single-phase AC motor — at 110/120 / rated value — at 230 V rated value — of 3-phase AC motor — at 200/208 V rated value — of 200/208 V rated value — at 260/208 V rated value — at 260/30 V rated value — at 275/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — of short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — (415 V, 80 KA) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting • eight  140 mm  depth — required spacing • with side-by-side mounting — forwards — upwards — upwards — upwards — odwnwards — owwards — owward	at 600 V rated value	77 A
• for single-phase AC motor — at 110/120 / rated value — at 230 V rated value — of 3-phase AC motor — at 200/208 V rated value — of 200/208 V rated value — at 260/208 V rated value — at 260/30 V rated value — at 275/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — of short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — (415 V, 80 KA) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting • eight  140 mm  depth — required spacing • with side-by-side mounting — forwards — upwards — upwards — upwards — odwnwards — owwards — owward	yielded mechanical performance [hp]	
• for 3-phase AC motor  — at 2200/208 V rated value — at 2200/230 V rated value — at 4200/230 V rated value — at 4200/230 V rated value — at 460/480 V rated value — at 675/600 V rated value — at 575/600 V rated value  Contact rating of auxillary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — for short-circuit protection of the auxillary switch — sold-by-side mounting dimensions  mounting position  fastening method  fastening method  fastening method  fastening method  fastening method  fastening method  forward and backward by +/-22.5° on vertical mounting surface: can be tilted froward and backward by +/-22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  forwards  — upwards — the side — downwards — to mm — of rol Ive parts — for live parts — forwards — upwards — upwards — the side — downwards — the side — upwards — the side — to mm  for live parts — forwards — upwards — the side — upwards — to mm  for live parts — forwards — upwards — the side — upwards — to mm  for live parts — forwards — upwards — to mm — upwards — u	• .	10 hp
of or 3-phase AC motor		·
- at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 576/600 V rated value - at 60/480 V rated value - 60/480 V ra		
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - with type of coordination 1 required - with type of coordination of the main circuit - with type of coordination of the auxiliary switch required - with type of coordination of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for side-by-side mounting difference of the auxiliary switch required and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface; can be	•	30 hp
- at 460/480 V rated value		·
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of coordination of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit  • for auxiliary contacts  75 hp A600 / P600   Ges 250 A (690 V, 100 kA), aM: 180 A (690 V, 100 kA), BS88: 220 A (415 V, 80 kA)   Ges: 160 A (690 V, 100 kA), aM: 180 A		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation' mounting/ dimensions  mounting position  **T-180** rotation possible on vertical mounting surface; can be tilted forward and backward by ++ 22.5* on vertical mounting surface  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  — torwards — upwards — downwards — at the side — on mm  • for grounded parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards — to fire ive parts — forwards — upwards — upwards — to mm  • for live parts — forwards — upwards — to mm  • for live parts — forwards — upwards — to mm  • for live parts — forwards — downwards — to mm  • for live parts — forwards — upwards — to mm  • for wards — to mm  • for war		·
Short-circuit protection   design of the fuse link     • for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of assignment 2 required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     Installation / mounting / dimensions		
design of the fuse link		A0007 F 000
• for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — for short-circuit protection of the auxiliary switch required  — with spend of assignment 2 required  — for short-circuit protection of the auxiliary switch required  — with spend of a spend of the auxiliary switch required  — with spend of the auxiliary switch required  — with self-or-spend of the auxiliary switch required forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22		
- with type of coordination 1 required  - with type of assignment 2 required  - with type of assignment 2 required  - with type of assignment 2 required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for side-by-side mounting / dimensions  - fastening method  - side-by-side mounting  - side-by-side mounting  - side-by-side mounting  - side-by-side mounting  - to mm  - depth  - forwards  - upwards  - upwards  - upwards  - at the side  - for orgonuded parts  - for orgonuded parts  - forwards  - upwards  - for main current upwards  - for main current circuit  - for auxiliary and control circuit  - for	•	
(415 V, 80 kA)  - with type of assignment 2 required  of Gr is 60 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)  of or short-circuit protection of the auxiliary switch required  mounting position  mounting position  mounting position  fastening method  of side-by-side mounting  of side-by-side mounting  of with side-by-side mounting  of with side-by-side mounting  of or mounting  of or mounting  of or grounded parts  of or grounded parts  of or grounded parts  of or ive parts  of or wards  of or mounting  of or ive parts  of ownwards  of or ive parts  of ownwards  of or ive parts  of or ive parts  of or main current circuit  of or auxiliary and control circuit  of rowardiary on tax is in a screw-type terminals  of crew-type terminals  screw-type terminals  of crew-type terminals	·	
with type of assignment 2 required  of cr short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  oside-by-side mounting  ves  height  vidth  of orwards  ownerds	<ul> <li>— with type of coordination 1 required</li> </ul>	
• for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting position  ***ide-by-side mounting**  ***ide-mounting mounting m	with two of agginment 2 required	
• for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  **F-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  • side-by-side mounting  height  **width  **70 mm  depth  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards — to mm  • for live parts — forwards — at the side — downwards — at the side — to mm  - to min current circuit — for auxiliary and control circuit — screw-type terminals  * crew-type terminals  * Screw-type terminals	— with type of assignment 2 required	
Installation/ mounting/ dimensions  mounting position	• for short-circuit protection of the auxiliary switch	
Installation/ mounting/ dimensions		go. 1074 (300 V, 1104)
mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  • side-by-side mounting  height  width  70 mm  depth  required spacing  • with side-by-side mounting  — forwards — upwards — upwards — downwards — at the side  • for grounded parts — for grounded parts — orwards — upwards — upwards — at the side  • for grounded parts — forwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — upwards — the side — downwards 10 mm  • for live parts — forwards — upwards — to mm  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts  Screw-type terminals	Installation/ mounting/ dimensions	
forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  in side-by-side mounting  in side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • or orwards  - upwards  - downwards  - at the side  • for grounded parts  - forwards  - upwards  - upwards  - upwards  - in mm  • for grounded parts  - forwards  - at the side  - downwards  - of live parts  • for live parts  - forwards  - upwards  - upwards  - upwards  - upwards  - to mm  • for live parts  - forwards  - upwards  - upwards  - upwards  - upwards  - to mm  - downwards  - upwards  - for mail current circuit  - for auxiliary and control circuit  - at contactor for auxiliary contacts  - Screw-type terminals  - Screw-type terminals  - Screw-type terminals  - Screw-type terminals	metanation/ mounting/ difficultions	
fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  side-by-side mounting  region 140 mm  width 70 mm  depth 152 mm  required spacing  with side-by-side mounting  forwards 20 mm  downwards 10 mm  downwards 0 mm  for grounded parts  for grounded parts  forwards 20 mm  forwards 10 mm  for grounded parts  forwards 10 mm  for grounded parts  forwards 10 mm  forwards 20 mm  forwards 10 mm  downwards 10 mm  at the side 10 mm  downwards 10 mm  at the side 10 mm  downwards 10 mm  for live parts  forwards 20 mm  upwards 10 mm  at the side 10 mm  forwards 10 mm  forwards 10 mm  for live parts  forwards 10 mm  connections/ Terminals  type of electrical connection  for auxiliary and control circuit screw-type terminals  at contactor for auxiliary contacts  Screw-type terminals		+/-180° rotation possible on vertical mounting surface; can be tilted
side-by-side mounting     height width 70 mm depth 152 mm required spacing      with side-by-side mounting     — forwards 20 mm     — downwards 10 mm     — at the side 0 mm     — forgrounded parts     — upwards 20 mm     — at the side 0 mm     — at the side 10 mm     — downwards 10 mm     — at the side 10 mm     — at the side 20 mm     — forwards 10 mm     — at the side 10 mm     — at the side 10 mm     — downwards 10 mm     — at the side 10 mm     — downwards 10 mm     — forwards 20 mm     — downwards 10 mm     — forwards 10 mm     — forwards 10 mm     — at the side 10 mm     — downwards 10 mm     — downwards 10 mm     — downwards 10 mm     — at many and control circuit 50 corew-type terminals 50 corew-type ter		
height width 70 mm 70 mm 152 m	mounting position	forward and backward by +/- 22.5° on vertical mounting surface
width depth 152 mm  required spacing  • with side-by-side mounting  — forwards 20 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm  • for grounded parts — upwards 10 mm — at the side 10 mm — downwards 10 mm  • for live parts — forwards 20 mm — upwards 10 mm — downwards 10 mm  • for live parts — forwards 20 mm — upwards 10 mm  • for live parts — forwards 10 mm — at the side 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — or main current circuit 50 mm  • for auxiliary and control circuit 50 screw-type terminals • at contactor for auxiliary contacts • Screw-type terminals • at contactor for auxiliary contacts	mounting position	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth required spacing	mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
required spacing  • with side-by-side mounting  — forwards — upwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — upwards — upwards — 10 mm  • for grounded parts — forwards — upwards — 10 mm — at the side — 10 mm  • for live parts — forwards — upwards — upwards — upwards — 10 mm  • for live parts — forwards — upwards — upwards — upwards — upwards — 10 mm  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts  Screw-type terminals  • Screw-type terminals • Screw-type terminals	mounting position  fastening method  • side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes
with side-by-side mounting     — forwards     — upwards     — upwards     — downwards     — at the side     • for grounded parts     — forwards     — upwards     — upwards     — upwards     — upwards     — at the side     — at the side     — at the side     — downwards     — at the side     — downwards     — for live parts     — forwards     — upwards     — upwards     — upwards     — upwards     — at the side     — upwards     — at the side     — upwards     — at the side     — at the si	mounting position  fastening method  • side-by-side mounting height	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm
- forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm  • for grounded parts - forwards 20 mm - upwards 10 mm - at the side 20 mm - upwards 10 mm - for live parts - forwards 20 mm - upwards 10 mm  • for live parts 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 50 mm -	mounting position  fastening method  • side-by-side mounting height width	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm
- upwards 10 mm - downwards 10 mm - at the side 0 mm  • for grounded parts - forwards 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm  • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts  10 mm - downwards 10 mm - connections/ Terminals  5 crew-type terminals 5 crew-type terminals 5 crew-type terminals	mounting position  fastening method  • side-by-side mounting height width depth	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm
- downwards - at the side  • for grounded parts  - forwards - upwards - at the side  10 mm  - at the side 10 mm  - at the side 10 mm  - downwards 10 mm  • for live parts  - forwards 20 mm  - upwards 10 mm  • for live parts  - forwards 10 mm  - downwards 10 mm  - downwards 10 mm  - downwards 10 mm  - at the side 10 mm  Connections/ Terminals   type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts  Screw-type terminals  • Screw-type terminals • Screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm
- at the side 0 mm  • for grounded parts  - forwards 20 mm  - upwards 10 mm  - at the side 10 mm  - downwards 10 mm  • for live parts  - forwards 20 mm  - upwards 10 mm  • for live parts  - forwards 20 mm  - upwards 10 mm  - at the side 10 mm  Connections/ Terminals   type of electrical connection  • for main current circuit screw-type terminals  • at contactor for auxiliary contacts  Screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing • with side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm
<ul> <li>for grounded parts         <ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts         <ul> <li>for wards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> </ul> </li> <li>Screw-type terminals</li> <li>at contactor for auxiliary contacts</li> <li>Screw-type terminals</li> </ul>	mounting position  fastening method  • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm for live parts forwards 20 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 10 mm at the side 10 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 Screw-type terminals Screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>10 mm</li> <li>10 mm</li> <li>mm</li> <li>screw-type terminals</li> <li>screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> </ul>	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>10 mm</li> <li>10 mm</li> <li>mm</li> <li>screw-type terminals</li> <li>screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> </ul>	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm
- at the side	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm 10 mm 0 mm
- downwards  • for live parts  - forwards  - upwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  10 mm  10 mm  10 mm  20 mm  10 mm  50 mm  50 mm  50 mm  50 connections/  50 screw-type terminals  50 screw-type terminals  50 screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm 10 mm 0 mm
for live parts         — forwards         — upwards         — upwards         — downwards         — at the side  Connections/ Terminals  type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts  Screw-type terminals         • Screw-type terminals         • Screw-type terminals         • Screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — a the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 0 mm
- forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 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	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>10 mm</li> <li>mm</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>Screw-type terminals</li> <li>at contactor for auxiliary contacts</li> </ul>	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side — downwards — at the side — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
- downwards - at the side 10 mm  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts  10 mm  10 mm  10 mm	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for live parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
- at the side 10 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	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — in orwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
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	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side — downwards — upwards  • for live parts — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
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	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • for lowards — upwards — upwards — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> </ul>	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for live parts — forwards — upwards — at the side — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>Screw-type terminals</li> </ul>	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — at the side — downwards — upwards — at the side — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
• at contactor for auxiliary contacts  Screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • of or grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals  type of electrical connection • for main current circuit	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
or magnet coll     Screw-type terminals	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
	mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm Screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals

type of connectable conductor cross-sections for main contacts

• finely stranded with core end processing connectable conductor cross-section for main contacts

- solid
- stranded
- finely stranded with core end processing

connectable conductor cross-section for auxiliary contacts

- solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
  - solid or stranded
  - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

- for main contacts
- · for auxiliary contacts

2x (2.5 ... 35 mm²), 1x (2.5 ... 50 mm²)

2.5 ... 16 mm<sup>2</sup>

6 ... 70 mm²

2.5 ... 50 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

10 ... 2

20 ... 14

#### Safety related data

### product function

• 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

IP20

finger-safe, for vertical contact from the front

Yes

#### Certificates/ approvals

## **General Product Approval**



Confirmation





**KC** 



EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













other	Railway	Dangerous Good
Confirmation	Vibration and Shock	Transport Informa- tion

#### **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=3RT2046-1NE30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1NE30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1NE30

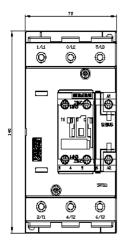
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

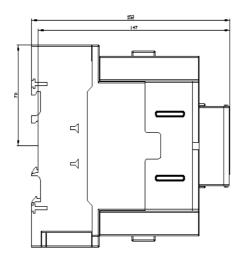
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2046-1NE30&lang=en

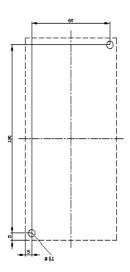
Characteristic: Tripping characteristics, I2t, Let-through current

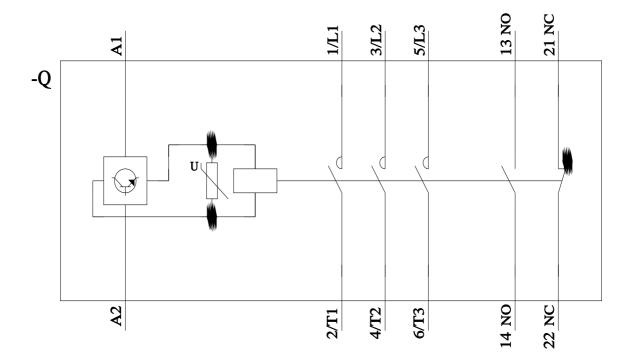
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1NE30/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1NE30&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1NE30&objecttype=14&gridview=view1</a>









last modified: 2/10/2023 🖸