## **SIEMENS**

Data sheet 3RT2027-2AP60



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

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>	6.3 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.3 W	
<ul> <li>without load current share typical</li> </ul>	2.7 W	
type of calculation of power loss depending on pole	quadratic	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 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	6 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	8,3g / 5 ms, 5,3g / 10 ms	
shock resistance with sine pulse		
• at AC	13,5g / 5 ms, 8,3g / 10 ms	
mechanical service life (operating cycles)		
of contactor typical	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	
Net Weight	0.46 kg	
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	95 %	

Environmental Product Declaration(PEPD)   Yes	maximum	
Environmental Product Desiration(CPP)   Yes		
global warming potential   CO2 eq  total   74 2 kg   g  global warming potential   CO2 eq  during operation   72 4 kg   g  global warming potential   CO2 eq  during operation   72 4 kg   g  global warming potential   CO2 eq  during operation   72 4 kg   9		Yes
global warming potential (CO2 eq) during manufacturing   19 kg		
global warming potential (CO2 eq) after on of life		
number of No Contacts for main current circuit		
number of potes for main current circuit   3   1   1   1   1   1   1   1   1   1		
number of NO contacts for main contacts         3           number of NC contacts for main contacts         0           operating voltage         et AC-3 rated value maximum         690 V           et aC-3 rated value maximum         690 V           operational current         et AC-1 at 400 V at ambient temperature 40 °C rated value         50 A           et al AC-1 up jo 690 V at ambient temperature 40 °C rated value         42 A           et al AC-1 up jo 690 V at ambient temperature 60 °C rated value         42 A           et al AC-3 up jo 680 V at ambient temperature 60 °C rated value         32 A           et al AC-3 up jo 680 V rated value         32 A           et al AC-3 up jo 7 rated value         32 A           et al AC-3 up jo 7 rated value         32 A           et al AC-3 up jo 800 V rated value         32 A           et al AC-3 up to 800 V rated value         21 A           et al AC-5 up to 800 V rated value         22 A           et al AC-5 up to 800 V rated value         22 A           et al AC-5 up to 400 V rated value         26.5 A           et al AC-5 up to 400 V rated value = 20 rated value         30.8 A           et al AC-6 up to 800 V rated value = 20 rated value         20.5 A           et al AC-6 up to 800 V for current peak value = 20 rated value         20.5 A           et al Current peak		3
number of NC contacts for main centacts   0	·	
operating voltage  • af AC-3 rated value maximum  • af AC-3 rated value maximum  • af AC-3 rated value maximum  • af AC-1 at 40 to V at ambient temperature 40 °C rated value  • af AC-1 at 40 to V at ambient temperature 40 °C rated value  • af AC-1  — up to 690 V at ambient temperature 60 °C rated value  — up to 690 V at ambient temperature 60 °C 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 400 V rated value  • at AC-3  — at 400 V rated value  • at AC-3  — at 400 V rated value  • at AC-3  — at 400 V rated value  • at AC-3  — at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 00 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 400 V rated value  • at AC-3 bu to 500 V rated value  • at AC-6 at 000 V rated value  • at AC-6 at 000 V rated value = 20 rated value  • at AC-6 at 000 V rated value = 20 rated value  • at AC-6 at 000 V rated value = 20 rated value  • at AC-6 at 000 V rated value = 20 rated value  • at AC-6 at 000 V rated value = 20 rated value  • at AC-6 at 000 V rated value = 20 rated value  • at AC-6 at 000 V rated value  • at 800 V rated value  • at 200 V rated value  • at 800 V rated value  • a		
e at AC-3 rated value maximum  operational current  at AC-1 at 400 V at ambient temperature 40 °C rated value  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  up to 690 V at ambient temperature 60 °C rated value  at AC-3  at 400 V rated value  at AC-3  at 400 V rated value  at 690 V rated value  at AC-3 au to 690 V rated value  at AC-5 au pto 690 V rated value  at AC-6 au 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=30 rated value  at AC-6 au 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 AC-6 au for current peak value n=30 rated value  up to 600 V for current peak value n=30 rated value  at AC-6 au for current peak value n=30 rated value  at AC-6 au for current peak value n=30 rated value  at AC-4  at 400 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at AC-4  at 400 V rated value		
• at AC-3 rated value maximum  • at AC-1 at 400 V at ambient temperature 40 °C 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 — up to 680 V rated value — at 500 V rated value — at 680 V rated value — at 800 V rated value — at 800 V rated value — at 800 V rated value — at AC-3 au to 680 V rated value — at AC-3 but 500 V rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — at 600 V rated v		690 V
operational current		
at AC-1 at 400 V at ambient temperature 40 °C rated value     at AC-1     — up to 690 V at ambient temperature 40 °C rated value     — up to 690 V at ambient temperature 60 °C rated value     — up to 690 V at ambient temperature 60 °C rated value     at AC-3     — at 400 V rated value     at 690 V rated value     at 590 V rated value     at 890 V rated value     at 890 V rated value     at 400 V rated value     at 400 V rated value     at AC-3e     — at 400 V rated value     at AC-3e up to 690 V rated value     at AC-5a up to 690 V rated value n=20 rated value     at AC-5a up to 690 V for current peak value n=20 rated value     at AC-6a     aup to 590 V for current peak value n=20 rated value     at AC-6a     aup to 690 V for current peak value n=30 rated value     at AC-6a     aup to 690 V for current peak value n=30 rated value     at AC-6a     aup to 690 V for current peak value n=30 rated value     aup to 690 V for current peak value n=30 rated value     aut to 500 V for current peak value n=30 rated value     aut for 690 V rated value     aut 690 V rated value     at 600 V rated value     at 400 V rated value     at 600 V		
• at AC-1         — up to 690 V at ambient temperature 40 °C rated value         50 A           — up to 690 V at ambient temperature 60 °C rated value         42 A           — at 400 V rated value         32 A           — at 500 V rated value         32 A           — at 600 V rated value         21 A           • at AC-3 =         32 A           — at 400 V rated value         32 A           — at 500 V rated value         32 A           — at 690 V rated value         21 A           • at AC-3 =         22 A           — at 690 V rated value         22 A           • at AC-5 =         22 A           • at AC-5 =         22 A           • at AC-5 =         24 A           • at AC-5 =         25 A           • at AC-5 =         44 A           • at AC-5 =         44 A           • at AC-5 =         44 A           • at AC-6 =         45 A           — up to 400 V for current peak value n=20 rated value         27 A           — up to 500 V for current peak value n=20 rated value         21 A           • at AC-6 =         — up to 500 V for current peak value n=30 rated value         20.5 A           — up to 500 V for current peak value n=30 rated value         18 A           — up to 500 V for curre	·	50 A
up to 690 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 at 500 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at AC-8 au pto 690 V rated value up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 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 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 val	·	
value  — up to 690 V at ambient temperature 60 °C rated value  — at AC-3  — at 400 V rated value  — at 500 V rated value  — at 500 V rated value  — at 690 V rated value  — at AC-3 at 100 V rated value  — at AC-5 bu p to 400 V rated value  — at AC-5 bu p to 400 V rated value  — at AC-6 are up to 230 V for current peak value n=20 rated value  — up to 400 V for current peak value n=20 rated value  — up to 690 V for current peak value n=20 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for	• at AC-1	
**at AC-3** - at 400 V rated value 32 A - at 500 V rated value 21 A **at AC-3** - at 400 V rated value 21 A **at AC-3** - at 400 V rated value 32 A - at 500 V rated value 32 A **at AC-4 at 400 V rated value 22 A **at AC-5 aup to 690 V rated value 22 A **at AC-5 aup to 690 V rated value 44 A **at AC-5 aup to 690 V rated value 25.5 A **at AC-6 a - 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 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 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - 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 600 V rated value - at 6		50 A
		42 A
- at 500 V rated value	• at AC-3	
alt AC-3e     — at 400 V rated value     alt AC-3e     — at 500 V rated value     — at 690 V rated value     alt AC-4 at 400 V rated value     alt AC-5 au pt 690 V rated value     alt AC-5 au pt 690 V rated value     alt AC-5a up t 690 V rated value     alt AC-5a up t 690 V rated value     alt 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 500 V for current peak value n=20 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     10 mm²     value  operational current for approx. 200000 operating cycles at AC-4     alt 400 V rated value     alt 600 V rated	— at 400 V rated value	32 A
■ at A00 V rated value — at 500 V rated value — at 500 V rated value 21 A  ■ at 600 V rated value 22 A  ■ at AC-4 at 400 V rated value 22 A  ■ at AC-5a up to 690 V rated value 25.5 A  ■ at AC-6b up to 400 V rated value 26.5 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 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=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 — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at 1110 V rated value — at 600 V rated value — at 400 V rated value — at 600 V rated value — at 24 V rated value	— at 500 V rated value	32 A
- at 400 V rated value	— at 690 V rated value	21 A
at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at AC-4 at 400 V rated value at AC-5a up to 690 V rated value at AC-5a 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 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 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 at 690 V rated value	• at AC-3e	
- at 690 V rated value  • 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-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  • at AC-6a — up to 230 V for current peak value n=20 rated value • at AC-6a — 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  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  • at 690 V rated value  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 60 V rated value  — at 600 V rated value  — at 22 V rated value  — at 24 V rated value	— at 400 V rated value	32 A
at AC-4 at 400 V rated value     at AC-5a up to 690 V rated value     at AC-5a up to 400 V rated value     at AC-6a     — up to 230 V for current peak value n=20 rated value     — up to 400 V for current peak value n=20 rated value     — up to 500 V for current peak value n=20 rated value     — up to 500 V for current peak value n=20 rated value     — up to 690 V for current peak value n=20 rated value     — up to 230 V for current peak value n=30 rated value     — up to 230 V for current peak value n=30 rated value     — up to 400 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 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 690 V 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 500 V rated value	32 A
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 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     — 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 690 V for current peak value n=30 rated value     — up to 690 V for current peak value n=30 rated value     — up to 690 V for current peak value n=30 rated value     — up to 690 V for current peak value n=30 rated value     — 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     0perational current for approx. 200000 operating cycles at     AC-4     • at 400 V rated value     • at 1 current path at DC-1     — at 24 V rated value     — at 600 V rated value     0.25 A     • with 2 current paths in series at DC-1     — at 24 V rated value	— at 690 V rated value	21 A
at AC-5b up to 400 V rated value     at AC-6a	• at AC-4 at 400 V rated value	22 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 27 A — 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 18 A — up to 690 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  - at 24 V rated value  - at 24 V rated value  - at 20 V rated value  - at 410 V rated value  - at 440 V rated value  - at 440 V rated value  - at 440 V rated value  - at 470 V rated value  - at 480 V rated value  - at 490 V rated value  - at 600 V rated value  - at 220 V rated value  - at 600 V rated value  - at 220 V rated value  - at 24 V rated value	• at AC-5a up to 690 V rated value	44 A
- up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=30 rated value - 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 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=35 A - up to 690 V rated value - up to 690 V for current peak value necessarial necessariale	• at AC-5b up to 400 V rated value	26.5 A
- 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 • 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 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - at 400 V rated value - at 400 V rated value - at 24 V rated value - at 24 V rated value - at 24 V rated value - at 20 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value	• at AC-6a	
- up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value  ■ at AC-6a  - up to 230 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - 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 ■ 12 A  operational current  ■ at 1 current path at DC-1  - at 24 V rated value - at 60 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value	— up to 230 V for current peak value n=20 rated value	30.8 A
- 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 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   18 A	— up to 400 V for current peak value n=20 rated value	30.8 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  at 690 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 20 A  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 20 A  at 21 V rated value  at 440 V rated value  at 440 V rated value  35 A  at 220 V rated value  35 A  35 A  36 A  37 A  38 A  39 A  40 A	— up to 500 V for current peak value n=20 rated value	27 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 18 A  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  12 A  operational current  • at 1 current path at DC-1  - at 24 V rated value - at 110 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 690 V rated value - at 200 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 690 V rated value - 35 A	— up to 690 V for current peak value n=20 rated value	21 A
- up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value 18 A  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 60 V rated value - at 110 V rated value - at 120 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - 35 A	• at AC-6a	
- up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value  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 220 V rated value  - at 440 V rated value  - at 440 V rated value  - at 400 V rated value  - at 220 V rated value  - at 220 V rated value  - at 400 V rated value  - at 440 V rated value  - at 440 V rated value  - at 600 V rated value  - a	— up to 230 V for current peak value n=30 rated value	20.5 A
— 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 10 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 440 V rated value  — at 400 V rated value  — at 400 V rated value  — at 200 V rated value  — at 400 V rated value  — at 500 V rated value  35 A  • with 2 current paths in series at DC-1  — at 24 V rated value  35 A	— up to 400 V for current peak value n=30 rated value	20.5 A
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 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 440 V rated value  — at 600 V rated value  — at 24 V rated value  35 A  0.4 A  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  35 A	— up to 500 V for current peak value n=30 rated value	18 A
value         operational current for approx. 200000 operating cycles at AC-4         • at 400 V rated value       12 A         • at 690 V rated value       12 A         operational current         • at 1 current path at DC-1       - at 24 V rated value         — at 60 V rated value       20 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	— up to 690 V for current peak value n=30 rated value	18 A
AC-4         ● at 690 V rated value       12 A         ● operational current       12 A         ● at 1 current path at DC-1       35 A         — at 24 V rated value       20 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       35 A		10 mm²
● at 690 V rated value  operational current  ● at 1 current path at DC-1  — at 24 V rated value — at 60 V rated value 20 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		
operational current  • at 1 current path at DC-1  — at 24 V rated value 35 A  — at 60 V rated value 20 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 400 V rated value	12 A
• at 1 current path at DC-1  — at 24 V rated value 35 A  — at 60 V rated value 20 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 690 V rated value	12 A
- at 24 V rated value 35 A - at 60 V rated value 20 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	operational current	
- at 60 V rated value 20 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 1 current path at DC-1	
- 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 24 V rated value	35 A
<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>35 A</li> </ul>	— at 60 V rated value	20 A
<ul> <li>— at 440 V rated value 0.4 A</li> <li>— at 600 V rated value 0.25 A</li> <li>• with 2 current paths in series at DC-1</li> <li>— at 24 V rated value 35 A</li> </ul>	— at 110 V rated value	
<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>35 A</li> </ul>	— at 220 V rated value	1 A
• with 2 current paths in series at DC-1  — at 24 V rated value 35 A	— at 440 V rated value	0.4 A
— at 24 V rated value 35 A	— at 600 V rated value	0.25 A
	<ul><li>with 2 current paths in series at DC-1</li></ul>	
	— at 24 V rated value	35 A
— at 60 V rated value 35 A	— at 60 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	00.4
— at 24 V rated value	20 A
— at 60 V rated value	5 A 1 A
— at 220 V rated value — at 440 V rated value	0.09 A
— at 440 V rated value  — at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	0.00 A
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	C MA
at 400 V rated value     at 600 V rated value	6 kW
at 690 V rated value	10.3 kW
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	12.2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	21.3 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	23.3 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	15.5 kVA
• up to 690 V for current peak value n=30 rated value	21.5 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>	499 A; Use minimum cross-section acc. to AC-1 rated value

limited to E. a. with him at a sure of	244 A. Haa minimum areas as tier and to A.O. 4 and I.I.		
Ilimited to 5 s switching at zero current maximum	341 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 10 s switching at zero current maximum	260 A; Use minimum cross-section acc. to AC-1 rated value		
Ilmitted to 30 s switching at zero current maximum	199 A; Use minimum cross-section acc. to AC-1 rated value		
Iimited to 60 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at AC	5 000 1/h		
operating frequency	4 000 4/L		
• at AC-1 maximum	1 000 1/h		
• at AC-2 maximum	750 1/h		
• at AC-3 maximum	750 1/h		
• at AC-3e	750.44		
— maximum	750 1/h		
at AC-4 maximum	250 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz rated value	220 V		
at 60 Hz rated value	240 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	81 VA		
● at 60 Hz	79 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	10.5 VA		
● at 60 Hz	8.5 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 instantaneous contact	1		
number of NO contacts for auxiliary contacts instantaneous contact	1		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
• at 230 V rated value	10 A		
• at 400 V rated value	3 A		
• at 500 V rated value	2 A		
at 690 V rated value	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 125 V rated value	2 A		
• at 220 V rated value	1 A		
at 600 V rated value	0.15 A		
operational current at DC-13			

at 24 V rated value	10 A	
at 48 V rated value	2 A	
• at 60 V rated value	2 A	
• at 110 V rated value	1 A	
• at 125 V rated value	0.9 A	
• at 220 V rated value	0.3 A	
• at 600 V rated value	0.1 A	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
at 480 V rated value	27 A	
at 600 V rated value	27 A	
yielded mechanical performance [hp]		
for single-phase AC motor		
— at 110/120 V rated value	2 hp	
— at 230 V rated value	5 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	10 hp	
— at 220/230 V rated value	10 hp	
— at 460/480 V rated value	20 hp	
— at 575/600 V rated value	25 hp	
contact rating of auxiliary contacts according to UL	A600 / P600	
Category Control Number (CCN)	E31519 (NLDX, NLDX7)	
Short-circuit protection		
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA	
design of the fuse link		
for short-circuit protection of the main circuit		
with type of coordination 1 required	gG: 125 A (690 V,100 kA), aM: 50 A (690 V,100 kA), BS88: 125 A (415 V,80	
	kA)	
	gG: 50 A (690 V, 100 kA), aM: 25 A (690 V, 100 kA), BS88: 50 A (415 V, 80 kA)	
<ul> <li>— with type of coordination 2 required</li> </ul>	gG: 50 A (690 V, 100 KA), aM: 25 A (690 V, 100 KA), BS88: 50 A (415 V, 80 KA)	
• for short-circuit protection of the auxiliary switch required	gG: 50 A (690 V, 100 KA), am: 25 A (690 V, 100 KA), BS88: 50 A (415 V, 80 KA) gG: 10 A (500 V, 1 kA)	
• 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	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and	
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes	
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method height	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting     fastening method     height     width	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards     — upwards	yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 45 mm 97 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards     — upwards     — downwards	yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 45 mm 97 mm 10 mm 10 mm 10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards     — upwards     — downwards     — at the side	yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 45 mm 97 mm 10 mm 10 mm 10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards     — upwards     — downwards     — at the side     for grounded parts	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm  10 mm  10 mm  0 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards     — upwards     — downwards     — at the side     for grounded parts     — forwards	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm 45 mm 97 mm  10 mm 10 mm 10 mm 10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting     — forwards     — upwards     — downwards     — at the side     for grounded parts     — forwards     — upwards     — upwards     — upwards     — torwards     — upwards     — upwards     — upwards     — upwards	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm  10 mm  10 mm  10 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting     fastening method height width depth required spacing	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting fastening method height width depth  required spacing     with side-by-side mounting	### description of the image of	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method 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     — for ive parts     — forwards	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method height width depth required spacing     with side-by-side mounting	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method 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     — downwards     — downwards     — forwards     — upwards     — downwards     — upwards     — upwards     — upwards     — at the side     — downwards     — at the side	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting     fastening method 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     — downwards     — for live parts     — forwards     — upwards     — downwards     — at the side Connections/ Terminals	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method side-by-side mounting fastening method 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     — upwards     — downwards     — at the side Connections/ Terminals type of electrical connection	yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 45 mm 97 mm 10 mm	
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method  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      — downwards      — at the side      — downwards      — upwards      — at the side      — downwards      — at the side  Connections/ Terminals	gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  Yes  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  102 mm  45 mm  97 mm  10 mm	

<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections		
• for main contacts		
— solid	2x (1 10 mm²)	
— solid or stranded	2x (1 10 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)	
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 8)	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
• stranded	1 10 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²	
<ul> <li>finely stranded without core end processing</li> </ul>	1 6 mm²	
connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²	
finely stranded without core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts		
— solid or stranded	2x (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 14)	
AWG number as coded connectable conductor cross section for main contacts	18 8	
AWG number as coded connectable conductor cross section for auxiliary contacts	20 14	
Safety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
suitable for safety function	Yes	
suitability for use safety-related switching OFF	Yes	
service life maximum	20 a	
test wear-related service life necessary	Yes	
proportion of dangerous failures		
with low demand rate according to SN 31920	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN	100 FIT	
31920		
ISO 13849		
device type according to ISO 13849-1	3	
overdimensioning according to ISO 13849-2 necessary	Yes	
IEC 61508		
safety device type according to IEC 61508-2	Type A	
Electrical Safety		
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529		
	finger-safe, for vertical contact from the front	
Approvals Certificates	finger-safe, for vertical contact from the front	

## General Product Approval











<u>KC</u>

General Product Approval	Test Certificates	Maritime application
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Type Test Certificates/Test Report

Special Test Certificate





Maritime application

other











**Miscellaneous** 

other

Railway

Environment



Confirmation

Confirmation

Special Test Certificate



Environmental Confirmations

## Further information

Information on the packaging

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

Information for data generation and storage

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

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-2AP60

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AP60

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

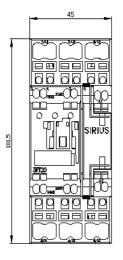
https://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2027-2AP60&lang=en

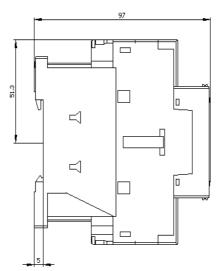
Cax online generator

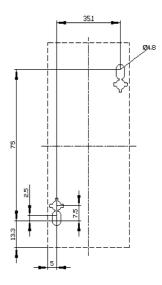
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-2AP60

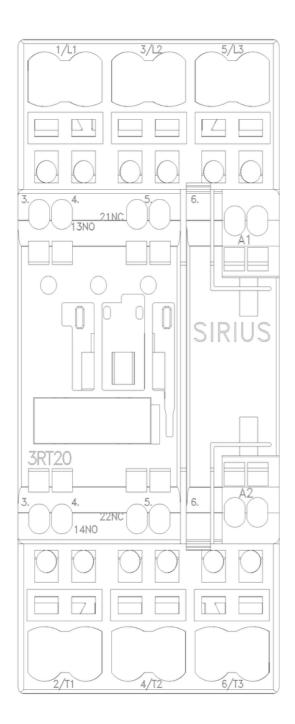
Characteristic curves

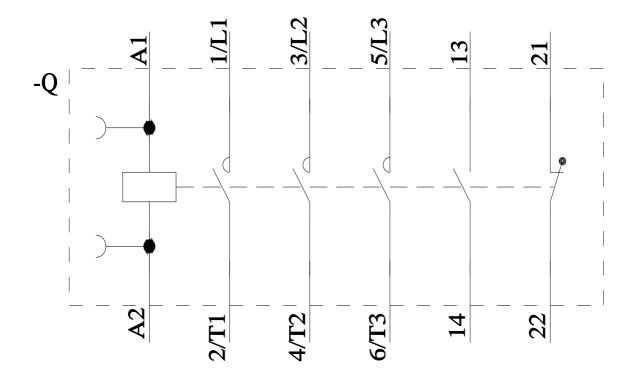
https://curves.simaris.siemens.com/curves/<mmp\_prod\_noCOMP="HAUPT"></mmp\_prod\_no>











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