## **SIEMENS**

Data sheet 3RT1076-6LA06



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V without operating mechanism 3-pole, auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	165 W
at AC in hot operating state per pole	55 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
• of main circuit with degree of pollution 3 rated value	1 000 V
• of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 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
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	
SVHC substance name	Lead - 7439-92-1
Weight	9.463 kg
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	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	610 A
up to 690 V at ambient temperature 40 °C rated value	610 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	550 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	200 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	200 A
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
at AC-3e	10071
— at 400 V rated value	500 A
	500 A
— at 500 V rated value	
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
at AC-4 at 400 V rated value	430 A
at AC-5a up to 690 V rated value	536 A
at AC-5b up to 400 V rated value	415 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	414 A
— up to 400 V for current peak value n=20 rated value	414 A
— up to 500 V for current peak value n=20 rated value	414 A
— up to 690 V for current peak value n=20 rated value	414 A
— up to 1000 V for current peak value n=20 rated value	180 A
• at AC-6a	070 A
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
— up to 690 V for current peak value n=30 rated value	276 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operational current for approx. 200000 operating cycles at AC-4	175 A
at 400 V rated value     at 600 V rated value	175 A
at 690 V rated value	150 A
operational current	
• at 1 current path at DC-1	400 A
— at 24 V rated value	400 A
— at 60 V rated value	330 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	400 A

	-1 440 V1 dl	400 A
	— at 110 V rated value	400 A
### 1600 V rated value  ### 1000 V rated value  ### 10		
### with 3 current paths in series at DC-1  - at 24 V rated value - at 110 V rated value - at 110 V rated value - at 24 V rated value - at 25 A  ** at 1 current path at DC-3 at DC-5  ** at 1 current path at DC-3 at DC-5 - at 26 V rated value - at 26 V rated value - at 27 V rated value - at 27 V rated value - at 28 V rated value - at 28 V rated value - at 28 V rated value - at 29 V rated value - at 29 V rated value - at 20 V rated value - at 28 V rated value - at 29 V rated value - at 29 V rated value - at 29 V rated value - at 20 V rated value		
		2 A
	-	
	— at 110 V rated value	400 A
■ at 1 current path at DC-3 at DC-5  — at 24 V rated value — at 80 V rated value — 40 00 A — 12 24 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 12 30 V rated value — 12 30 V rated value — 18 00 V rated value — 19 00 V rated va	— at 220 V rated value	
■ at 1 current path at DC-3 at DC-5  — at 24 V rated value	— at 440 V rated value	11 A
	— at 600 V rated value	5.2 A
	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
at 220 V rated value	— at 24 V rated value	400 A
at 440 V rated value	— at 60 V rated value	11 A
• with 2 current paths in series at DC-3 at DC-5           — at 24 V rated value         400 A           — at 190 V rated value         400 A           — at 110 V rated value         400 A           — at 110 V rated value         2.5 A           — at 440 V rated value         0.85 A           — at 440 V rated value         0.37 A           • with 3 current paths in series at DC-3 at DC-5         400 A           — at 24 V rated value         400 A           — at 50 V rated value         400 A           — at 210 V rated value         400 A           — at 220 V rated value         400 A           — at 24 V rated value         400 A           — at 24 V rated value         400 A           — at 220 V rated value         400 A           — at 240 V rated value         0.75 A           operating power         • 18 AC-3           — at 230 V rated value         250 kW           — at 400 V rated value         250 kW           — at 690 V rated value         250 kW           — at 690 V rated value<	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-5  — at 224 V rated value — at 610 V rated value — at 110 V rated value — at 256 V rated value — at 200 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 100 V rated value — at 440 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 600 V rat	— at 440 V rated value	0.18 A
	— at 600 V rated value	0.125 A
at 100 V rated value	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	400 A
	— at 60 V rated value	400 A
	— at 110 V rated value	400 A
	— at 220 V rated value	2.5 A
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
at 10 V rated value	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
- at 110 V rated value	— at 24 V rated value	400 A
- at 220 V rated value	— at 60 V rated value	400 A
	— at 110 V rated value	400 A
operating power	— at 220 V rated value	400 A
● at AC-3         — at 230 V rated value         160 kW           — at 400 V rated value         250 kW           — at 500 V rated value         315 kW           — at 690 V rated value         400 kW           — at 1000 V rated value         250 kW           • at AC-3e         — at 230 V rated value           — at 500 V rated value         250 kW           — at 1000 V rated value         250 kW           — at 400 V rated value         250 kW           — at 400 V rated value         250 kW           — at 400 V rated value         250 kW           — at 690 V rated value         250 kW           • at 400 V rated value         160 kW           • at 400 V rated value         250 kW           • put to 230 V for current peak value n=20 rated value         180 000 kVA           • up to 500 V for current peak value n=20 rated value         280 000 VA           • up to 500 V for current peak value n=20 rated value         490 000 VA           • up to 1000 V for current peak value n=30 rated value         110 000 VA           • up to 500 V for cu	— at 440 V rated value	1.4 A
• at AC-3  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 250 kW  • at AC-3e — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value  • at 400 V rated value  • at 400 V rated value  • at 690 V rated value  • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value	— at 600 V rated value	0.75 A
at 230 V rated value	operating power	
- at 400 V rated value	• at AC-3	
- at 500 V rated value	— at 230 V rated value	160 kW
- at 690 V rated value - at 1000 V rated value 250 kW  • at AC-3e - at 230 V rated value 160 kW - at 400 V rated value 250 kW  - at 690 V rated value 250 kW  - at 1000 V rated value 250 kW  operating power for approx. 200000 operating cycles at AC-  4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 280 000 VA • up to 500 V for current peak value n=20 rated value 9000 VA • up to 690 V for current peak value n=20 rated value 490 000 VA • up to 1000 V for current peak value n=20 rated value 1000 VA • up to 230 V for current peak value n=20 rated value 1000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA	— at 400 V rated value	250 kW
- at 1000 V rated value  • at AC-3e  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value  98 kW  • at 400 V rated value  • at 400 V rated value  148 kW   Operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 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  110 000 VA • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value	— at 500 V rated value	315 kW
at AC-3e  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 400 V rated value  at 690 V rated value  au pto 230 V for current peak value n=20 rated value  au pto 400 V for current peak value n=20 rated value  au pto 500 V for current peak value n=20 rated value  au pto 1000 V for current peak value n=20 rated value  au pto 1000 V for current peak value n=20 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 500 V for current peak value n=30 rated value  au pto 500 V for current peak value n=30 rated value  au pto 500 V for current peak value n=30 rated value  au pto 500 V for current peak value n=30 rated value  au pto 500 V for current peak value n=30 rated value  au pto 500 V for current peak value n=30 rated value  au pto 690 V for current peak value n=30 rated value  au pto 690 V for current peak value n=30 rated value  au pto 690 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value  au pto 1000 V for current peak value n=30 rated value	— at 690 V rated value	400 kW
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • 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 1000 V rated value	250 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value 250 kW  operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 690 V rated value • at 690 V rated value  • at 690 V rated value • at 690 V rated value  • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value	• at AC-3e	
- at 500 V rated value - at 690 V rated value - at 1000 V rated value 250 kW   operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 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 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value	— at 230 V rated value	160 kW
- at 690 V rated value 250 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 98 kW • at 690 V rated value 148 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 280 000 VA • up to 400 V for current peak value n=20 rated value 350 000 VA • up to 690 V for current peak value n=20 rated value 490 000 VA • up to 1000 V for current peak value n=20 rated value 490 000 VA • up to 230 V for current peak value n=20 rated value 490 000 VA • up to 500 V for current peak value n=20 rated value 490 000 VA • up to 1000 V for current peak value n=20 rated value 310 000 VA  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 190 000 VA • up to 400 V for current peak value n=30 rated value 190 000 VA • up to 500 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA • up to 1000 V for current peak value n=30 rated value 330 000 VA • up to 1000 V for current peak value n=30 rated value 330 000 VA	— at 400 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-  at 400 V rated value at 690 V rated value at 690 V rated value at 690 V for current peak value n=20 rated value aup to 230 V for current peak value n=20 rated value aup to 400 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 690 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 230 V for current peak value n=30 rated value aup to 400 V for current peak value n=30 rated value aup to 400 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value	— at 500 V rated value	315 kW
operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 690 V rated value • 148 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 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 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 1000 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value	— at 690 V rated value	400 kW
at 400 V rated value at 690 V rated value 148 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value 160 000 kVA  up to 400 V for current peak value n=20 rated value 280 000 VA  up to 500 V for current peak value n=20 rated value 350 000 VA  up to 690 V for current peak value n=20 rated value 310 000 VA  up to 1000 V for current peak value n=20 rated value 310 000 VA  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value 110 000 VA  up to 400 V for current peak value n=30 rated value 110 000 VA  up to 500 V for current peak value n=30 rated value 230 000 VA  up to 690 V for current peak value n=30 rated value 310 000 VA  up to 690 V for current peak value n=30 rated value 330 000 VA  up to 1000 V for current peak value n=30 rated value 310 000 VA	— at 1000 V rated value	250 kW
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>148 kW</li> </ul> Operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 VA</li> </ul>		
at 690 V rated value      operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     up to 1000 V for current peak value n=20 rated value     up to 1000 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 690 V for current peak value n=30 rated value     up to 690 V for current peak value n=30 rated value     up to 1000 V for current peak value n=30 rated value     up to 1000 V for current peak value n=30 rated value     330 000 VA     up to 1000 V for current peak value n=30 rated value     310 000 VA		
operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value  • up to 400 V for current peak value n=20 rated value  • up to 500 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 1000 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 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 1000 V for current peak value n=30 rated value  330 000 VA  • up to 1000 V for current peak value n=30 rated value  330 000 VA		
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 V A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 V A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 V A</li> <li>310 000 V A</li> </ul>	at 690 V rated value	148 kW
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>330 000 V A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 V A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 V A</li> <li>310 000 V A</li> </ul>	operating apparent power at AC-6a	
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>350 000 VA</li> <li>110 000 VA</li> <li>230 000 VA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 VA</li> </ul>	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	160 000 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 V A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 V A</li> </ul>	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	280 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 V A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 V A</li> </ul>	·	350 000 VA
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 VA</li> </ul>	• up to 690 V for current peak value n=20 rated value	490 000 VA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 VA</li> </ul>	• up to 1000 V for current peak value n=20 rated value	310 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>310 000 VA</li> </ul>	operating apparent power at AC-6a	
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>310 000 VA</li> </ul>	• up to 230 V for current peak value n=30 rated value	110 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>330 000 VA</li> <li>310 000 VA</li> </ul>	• up to 400 V for current peak value n=30 rated value	190 000 VA
• up to 1000 V for current peak value n=30 rated value 310 000 VA	• up to 500 V for current peak value n=30 rated value	230 000 VA
	• up to 690 V for current peak value n=30 rated value	330 000 VA
short-time withstand current in cold operating state up to	• up to 1000 V for current peak value n=30 rated value	310 000 VA
	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>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	5 978 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	3 765 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
• at AC-3e maximum	420 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Without operating mechanism
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
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	
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	477 A
at 600 V rated value	472 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	150 hp
<ul> <li>at 220/230 V rated value</li> </ul>	200 hp

— at 460/480 V rated value	400 hp		
— at 575/600 V rated value	500 hp		
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
design of the fuse link			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 630 A (690 V, 100 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50		
for short-circuit protection of the auxiliary switch required	kA) gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions	90. 10 A (300 V, 1 KA)		
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
	+/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
height	214 mm		
width	160 mm		
depth	225 mm		
required spacing			
<ul><li>with side-by-side mounting</li></ul>			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul><li>for grounded parts</li></ul>			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
• for live parts			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection	Connection has		
for main current circuit     for auxilians and control circuit	Connection bar		
for auxiliary and control circuit     at contactor for auxiliary contacts	screw-type terminals		
at contactor for auxiliary contacts     of magnet coil	Screw-type terminals		
of magnet coil  width of connection bar	Screw-type terminals 25 mm		
thickness of connection bar	6 mm		
diameter of holes	11 mm		
number of holes	1		
type of connectable conductor cross-sections			
for AWG cables for main contacts	2/0 500 kcmil		
connectable conductor cross-section for main contacts			
• stranded	70 240 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 4 mm²		
finely stranded with core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable conductor cross section			
• for auxiliary contacts	18 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	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	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 31920	100 FIT
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	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

General Product Approval

Confirmation











EMV Functional Saftey Test Certificates Marine / Shipping



Type Examination Certificate

Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping other







Miscellaneous

Confirmation

Miscellaneous

Railway Environment

Special Test Certificate Environmental Confirmations

## Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-6LA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6LA06

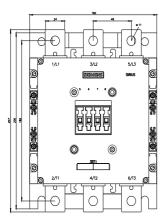
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

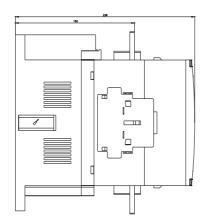
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6LA06

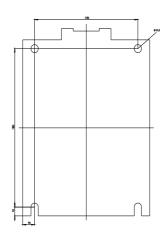
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

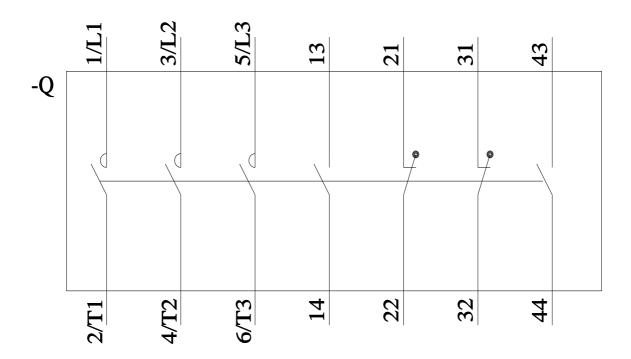
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1076-6LA06&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current









last modified:	<b>♂</b>	