## SIEMENS

## Data sheet

## 3RT1076-6SF36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 96-127 V x (0.8-1.1) F-PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic 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	\$12
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>	165 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	55 W
<ul> <li>without load current share typical</li> </ul>	3.6 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

number of poles for main current circuit     3       number of NO contacts for main contacts     3       operating voltage     1000 V       • at AC-3 rated value maximum     1000 V       • at AC-3e rated value maximum     1000 V	
number of NO contacts for main contacts       3         operating voltage	
at AC-3 rated value maximum     1 000 V     at AC-3e rated value maximum     1 000 V	
• at AC-3e rated value maximum 1 000 V	
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated 610 A value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated 610 A value	
— up to 690 V at ambient temperature 60 °C rated 550 A value	
— up to 1000 V at ambient temperature 40 °C rated 200 A value	
<ul> <li>up to 1000 V at ambient temperature 60 °C rated</li> <li>value</li> </ul>	
• at AC-3	
- 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	
- 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-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 180 A value	
• at AC-6a	
— 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 180 A value	
minimum cross-section in main circuit at maximum AC-1 rated 370 mm <sup>2</sup>	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value 175 A	
• at 690 V rated value 150 A	
operational current	
at 1 current path at DC-1	
- 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	
- at 110 V rated value 400 A	

- at 200 Yunki value4JA- at 200 Yunki value2 A- at 200 Yunki value200 A- at 201 Yunki value400 A- at 201 Yunki value52 A- at 201 Yunki value52 A- at 201 Yunki value60 A- at 201 Yunki value60 A- at 201 Yunki value60 A- at 201 Yunki value06 A- at 201 Yunki value018 A- at 201 Yunki value020 A- at 201 Yunki value200 A- at 201 Yunki value200 A- at 201 Yunki value005 A- at 201 Yunki value005 A- at 201 Yunki value005 A- at 201 Yunki value000 A- at 201 Yunki value000 A- at 201 Yunki value400 A- at 201 Yunki value201 W- at 201 Yunki value201 W- at 201 Yun		
	— at 220 V rated value	400 A
•••••••••••••••••••••••••••••••••••		
- mi 24 V raide value400 Å- mi 40 V Vraide value400 Å- mi 40 V Vraide value400 Å- mi 40 V Vraide value52 Å- mi 40 V Vraide value52 Å- mi 40 V Vraide value52 Å- mi 41 Urraine path at DC-3 at DC-3 mi 41 Vraide value104 Å- mi 41 Vraide value00 Å- mi 41 Vraide value018 Å- mi 41 Vraide value018 Å- mi 41 Vraide value018 Å- mi 41 Vraide value00 Å- mi 41 V vraide value20 KV- mi 41 V vraide		2 A
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- af 10 V raid value400 Å- af 200 V raid value52 Å- af 600 V raid value52 Å- af 600 V raid value52 Å- af 54 V mile value600 Å- af 54 V mile value100 Å- af 650 V raid value10 Å- af 650 V raid value0.6 Å- af 74 V mile value0.6 Å- af 74 V raid value0.6 Å- af 740 V raid value0.6 Å- af 740 V raid value0.6 Å- af 740 V raid value0.6 Å- af 640 V raid value0.0 Å- af 640 V raid value600 Å- af 640 V raid value0.0 Å- af 640 V raid value0.0 Å- af 640 V raid value0.0 Å- af 740 V raid value0.6 Å- af 640 V raid value0.6 Å- af 740 V raid value0.0 Å- af 750 V raid value100 Å- af 750 V raid value <td></td> <td></td>		
- all 20 Vraid value400 Å- all 400 Vraid value52 A- all 400 Vraid value400 Å- all 400 Vraid value400 Å- all 400 Vraid value60 Å- all 400 Vraid value400 Å- all 400 Vraid value500 KW- all 400 Vraid valu		
- alt 40 V rade Value11 A- alt 600 V rade Value52 A- alt 600 V rade Value400 A- alt 600 V rade Value60 A- alt 70 V rade Value0.6 A- alt 70 V rade Value0.18 A- alt 70 V rade Value0.00 A- alt 70 V rade Value400 A- alt 70 V rade Value0.00 A- alt 70 V rade Value200 A		
	— at 220 V rated value	
• at 1 current path at DC-3 at DC-3- at 24 V inted value11 A- at 10 V inted value3 A- at 20 V inted value0.6 A- at 20 V inted value0.18 A- at 24 V inted value0.04 A- at 24 V inted value0.04 A- at 24 V inted value400 A- at 24 V inted value0.05 A- at 240 V inted value0.00 A- at 240 V inted value400 A- at 240 V inted value400 A- at 240 V inted value1.1 A- at 240 V inted value1.1 A- at 240 V inted value1.1 A- at 250 V inted value1.0 K- at 250 V inted value20 K <td>— at 440 V rated value</td> <td></td>	— at 440 V rated value	
- at 24 V rintro value400 Å- at 60 V rintro Value11 Å- at 60 V rintro Value0.8 Å- at 220 V rintro Value0.8 Å- at 420 V rintro Value0.18 Å- at 600 V rintro Value0.125 Å- at 600 V rintro Value400 Å- at 600 V rintro Value400 Å- at 600 V rintro Value606 Å- at 600 V rintro Value606 Å- at 600 V rintro Value606 Å- at 600 V rintro Value0.37 Å- at 600 V rintro Value0.37 Å- at 600 V rintro Value0.04 Å- at 600 V rintro Value0.04 Å- at 600 V rintro Value0.04 Å- at 600 V rintro Value0.37 Å- at 600 V rintro Value400 Å- at 600 V rintro Value400 Å- at 600 V rintro Value400 Å- at 600 V rintro Value605 Å- at 600 V rintro Value605 Å- at 600 V rintro Value250 KW- at 600 V rintro Value <td< td=""><td></td><td>5.2 A</td></td<>		5.2 A
- at 00 V rated value11 A- at 100 V rated value0.6 A- at 420 V rated value0.18 A- at 440 V rated value0.18 A- at 400 V rated value0.18 A- at 600 V rated value0.18 A- at 600 V rated value400 A- at 600 V rated value400 A- at 600 V rated value605 A- at 110 V rated value0.65 A- at 400 V rated value0.60 A- at 400 V rated value400 A- at 200 V rated value400 A- at 200 V rated value505 KW- at 200 V rated value505 KW- at 400 V rated value100 KW- at 400 V rated value100 KW- at 400 V rated value105 KW- at 600 V rated value105 KW- at 600 V r	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
- al 10 V rated value3 A- al 220 V rated value0.6 A- al 400 V rated value0.18 A- al 600 V rated value1.18 A- al 600 V rated value400 A- al 22 V rated value400 A- al 10 V rated value400 A- al 10 V rated value0.0 A- al 220 V rated value0.0 A- al 220 V rated value0.0 A- al 220 V rated value0.0 A- al 420 V rated value0.0 A- al 410 V rated value0.0 A- al 420 V rated value0.0 A- al 410 V rated value0.0 A- al 410 V rated value0.0 A- al 410 V rated value0.0 A- al 420 V rated value0.0 A- al 420 V rated value200 KW- al 420 V rated value200 KW- al 420 V rated value250 KW- al 400 V rated value260 KW- al 400 V rated value260 KW- al 400 V rated value <td>— at 24 V rated value</td> <td></td>	— at 24 V rated value	
	— at 60 V rated value	11 A
	— at 110 V rated value	3 A
	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-500 A	— at 440 V rated value	0.18 A
	— at 600 V rated value	0.125 A
	<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 600 V rated value         0.37 Å           • with 3 current paths in series at DC-3 at DC-5         •           at 60 V rated value         400 Å           at 600 V rated value         400 Å           at 600 V rated value         200 KMV           at 600 V rated value         75 Å           operating power	— at 220 V rated value	2.5 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>400 A</li> <li>at 110 V rated value</li> <li>400 A</li> <li>at 110 V rated value</li> <li>400 A</li> <li>at 220 V rated value</li> <li>400 A</li> <li>at 400 V rated value</li> <li>0.75 A</li> </ul> operating power <ul> <li>at AC-2 at 400 V rated value</li> <li>0.75 A</li> </ul> operating power <ul> <li>at AC-2 at 400 V rated value</li> <li>160 kW</li> <li>at 400 V rated value</li> <li>160 kW</li> <li>at 400 V rated value</li> <li>250 kW</li> </ul> operating power <ul> <li>at 300 V rated value</li> <li>160 kW</li> <li>at 400 V rated value</li> <li>250 kW</li> </ul> operating power <ul> <li>at 300 V rated value</li> <li>160 kW</li> <li>at 400 V rated value</li> <li>250 kW</li> </ul> operating power <ul> <li>at 300 V rated value</li> <li>160 kW</li> <li>at 400 V rated value</li> <li>160 kW</li> <li>at 600 V rated value</li>     &lt;</ul>	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
− at 60 V rated value400 Å− at 110 V rated value400 Å− at 220 V rated value400 Å− at 440 V rated value14 Å− at 600 V rated value0.75 Åoperating power505 kW− at 230 V rated value250 kW− at 230 V rated value250 kW− at 200 V rated value250 kW− at 200 V rated value250 kW− at 500 V rated value250 kW− at 500 V rated value250 kW− at 500 V rated value250 kW− at 600 V rated value250 kW− at 600 V rated value400 kW− at 600 V rated value250 kW− at 600 V rated value160 kW− at 200 V rated value160 kW− at 200 V rated value250 kW− at 200 V rated value160 kW− at 400 V rated value250 kW− at 600 V rated value260 kW− at 600 V rated value200 kW− at 600 V rated value200 kW− at 60	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	400 A
at 220 V rated value400 A at 440 V rated value1.4 A at 630 V rated value0.75 Aoperating power250 kW at 230 V rated value250 kW- at 230 V rated value160 kW- at 230 V rated value250 kW- at 230 V rated value250 kW- at 630 V rated value250 kW- at 230 V rated value250 kW- at 630 V rated value260 kW- at 630 V rated value n=20 rated value360 000 kM- at 640 V for current peak value n=20 rated value350 000 VA- up to 500 V for current peak value n=20 rated value350 000 VA- up to 500 V for current peak value n=20 rated value300 000 VA- up to 500 V for current peak value n=30 rated value110 000 VA- up to	— at 60 V rated value	400 A
at 440 V rated value1.4 Å at 600 V rated value0.75 Åoperating power250 kW at 230 V rated value160 kW at 230 V rated value250 kW at 600 V rated value315 kW at 600 V rated value250 kW at 600 V rated value250 kW at 600 V rated value250 kW at 1000 V rated value250 kW at 1000 V rated value250 kW at 230 V rated value250 kW at 230 V rated value160 kW at 230 V rated value250 kW at 230 V rated value250 kW at 690 V rated value260 kW at 690 V rated value260 kW at 690 V rated value280 000 VA at 690 V rated value n=20 rated value260 000 VA at 690 V rated value n=20 rated value260 000 VA up to 500 V for current peak value n=20 rated value300 000 VA up to 500 V for current peak value n=20 rated value260 000 VA up to 500 V for current peak value n=20 rated value10000 VA up to 500 V for current peak value n=	— at 110 V rated value	400 A
at 800 V rated value         0.75 A           operating power         250 kW           - at AC-2 at 400 V rated value         250 kW           - at 230 V rated value         160 kW           - at 400 V rated value         250 kW           - at 600 V rated value         250 kW           - at 600 V rated value         315 kW           - at 600 V rated value         250 kW           - at 600 V rated value         250 kW           - at 1000 V rated value         250 kW           - at 230 V rated value         250 kW           - at 230 V rated value         160 kW           - at 230 V rated value         250 kW           - at 630 V rated value         160 kW           - at 630 V rated value         250 kW           - at 630 V rated value         160 kW           - at 630 V rated value	— at 220 V rated value	400 A
operating power250 kW• at AC-2 at 400 V rated value250 kW• at 230 V rated value160 kW- at 230 V rated value250 kW- at 500 V rated value315 kW- at 690 V rated value315 kW- at 690 V rated value250 kW- at 690 V rated value250 kW- at 690 V rated value250 kW- at 400 V rated value250 kW- at 230 V rated value160 kW- at 400 V rated value250 kW- at 690 V rated value160 kW- at 690 V rated value315 kW- at 690 V rated value315 kW- at 690 V rated value300 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 20000 operating cycles at AC-6• at 400 V rated value98 kW• at 400 V rated value160 000 kVA• at 400 V for current peak value n=20 rated value160 000 kVA• up to 230 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=30 rated value110 000 VA• up to 530 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA• up to 500 V for current peak value n=	— at 440 V rated value	1.4 A
• at AC-2 at 400 V rated value         250 kW           • at AC-3         -           - at 230 V rated value         160 kW           - at 400 V rated value         250 kW           - at 500 V rated value         250 kW           - at 500 V rated value         315 kW           - at 690 V rated value         250 kW           - at 690 V rated value         250 kW           - at 1000 V rated value         250 kW           - at 1230 V rated value         250 kW           - at 230 V rated value         160 kW           - at 230 V rated value         160 kW           - at 400 V rated value         250 kW           - at 500 V rated value         160 kW           - at 400 V rated value         250 kW           - at 600 V rated value         160 kW           - at 600 V rated value         250 kW           - at 600 V rated value         160 kW           - at 600 V rated value         250 kW           - at 600 V rated value         160 kW           - at 600 V rated value         160 kW           - at 600 V rated value         260 kW           - at 600 V rated value         260 kW           - at 600 V rated value         20 kW           - at 600 V rated value n=20 rated value<	— at 600 V rated value	0.75 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         200 kW           - at 1000 V rated value         250 kW           - at 1000 V rated value         250 kW           - at 230 V rated value         250 kW           - at 230 V rated value         250 kW           - at 230 V rated value         160 kW           - at 400 V rated value         250 kW           - at 500 V rated value         250 kW           - at 500 V rated value         250 kW           - at 600 V rated value         260 kW           - at 600 V rated value         260 kW           - at 600 V rated value         260 kW           - at 600 V rated value         98 kW           • at 400 V rated value n=20 rated value         280 000 VA           • up to 230 V for current peak value n=20 rated value         280 000 VA	operating power	
- 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       500 kW         - at 1000 V rated value       500 kW         - at 230 V rated value       160 kW         - at 230 V rated value       160 kW         - at 230 V rated value       250 kW         - at 400 V rated value       250 kW         - at 690 V rated value       98 kW         - at 690 V rated value       98 kW         - at 690 V rated value n=20 rated value       160 000 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=20 rated value       490 000 VA         - up to 500 V for current peak value n=30 rated value       1	<ul> <li>at AC-2 at 400 V rated value</li> </ul>	250 kW
	• at AC-3	
- at 500 V rated value       315 kW         - at 690 V rated value       400 kW         - at 1000 V rated value       250 kW         - at 230 V rated value       160 kW         - at 230 V rated value       250 kW         - at 400 V rated value       250 kW         - at 400 V rated value       250 kW         - at 690 V rated value       315 kW         - at 690 V rated value       250 kW         - at 1000 V rated value       250 kW         - at 690 V rated value       250 kW         - at 1000 V rated value       260 kW         - at 1000 V rated value       260 kW         - at 690 V rated value       260 kW         - at 690 V rated value n=20 rated value       280 000 VA         - up to 500 V for current peak value n=20 rated value       260 000 VA         - up to 500 V for current peak value n=20 rated value       300 00 VA         - up to 500 V for curr	— at 230 V rated value	160 kW
- at 690 V rated value       400 kW         - at 1000 V rated value       250 kW         - at 230 V rated value       160 kW         - at 230 V rated value       160 kW         - at 400 V rated value       250 kW         - at 690 V rated value       250 kW         - at 690 V rated value       400 kW         - at 690 V rated value       400 kW         - at 690 V rated value       250 kW         - at 1000 V rated value       80 kW         - at 1000 V rated value       98 kW         • at 690 V rated value       148 kW         • at 690 V rated value n=20 rated value       160 000 kVA         • at 690 V for current peak value n=20 rated value       250 000 VA         • up to 500 V for current peak value n=20 rated value       350 000 VA         • up to 500 V for current peak value n=20 rated value       490 000 VA         • up to 690 V for current peak value n=20 rated value       490 000 VA         • up to 500 V for current peak value n=30 rated value       110 000 VA         • up to 230 V for current peak value n=30 rated value       190 000 VA         • up to 230 V for current peak value n=30 rated value       100 000 VA         • up to 230 V for current peak value n=30 rated value       100 000 VA         • up to 230 V for current peak value n=30 rated value <td>— at 400 V rated value</td> <td>250 kW</td>	— at 400 V rated value	250 kW
- at 1000 V rated value250 kW• at AC-3e at 230 V rated value160 kW- at 400 V rated value250 kW- at 400 V rated value250 kW- at 6500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 1000 V rated value98 kW- at 400 V rated value98 kW- at 400 V rated value160 000 kVA• at 690 V rated value160 000 kVA• at 690 V rated value250 cW• pot 230 V for current peak value n=20 rated value160 000 kVA• up to 230 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value350 000 VA• up to 1000 V for current peak value n=20 rated value100 00 VA• up to 690 V for current peak value n=30 rated value110 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 690 V for current peak value n=30 rated value300 00 VA• up to 690 V for current peak value n=30 rated value300 00 VA• up to 690 V for current peak value n=30 rated value300 00 VA• up to 690 V for current peak value n=30 rated value300 00 VA	— at 500 V rated value	315 kW
• at AC-3eI60 kW- at 230 V rated value160 kW- at 400 V rated value250 kW- at 500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-47• at 400 V rated value98 kW• at 690 V rated value98 kW• at 690 V rated value98 kW• at 690 V rated value148 kW• at 690 V rated value n=20 rated value160 000 kVA• up to 230 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value190 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA• up to 690 V for current peak value n=30 rated value330 000 VA• up to 690 V for current peak value n=30 rated value330 000 VA• up to 690 V for current peak value n=30 rated value330 000	— at 690 V rated value	400 kW
- at 230 V rated value160 kW- at 400 V rated value250 kW- at 500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-4250 kW• at 400 V rated value98 kW• at 400 V rated value98 kW• at 690 V rated value98 kW• at 690 V rated value148 kWoperating apparent power at AC-6a160 000 kVA• up to 230 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value490 000 VA• up to 500 V for current peak value n=20 rated value490 000 VA• up to 500 V for current peak value n=20 rated value490 000 VA• up to 500 V for current peak value n=30 rated value110 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value1000 VA• up to 500 V for current peak value n=30 rated value230 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA• up to 690 V for current peak value n=30 rated value330 000 VA• up to 690 V for current peak value n=30 rated value330 000 VA	— at 1000 V rated value	250 kW
- at 400 V rated value250 kW- at 500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-498 kW- at 400 V rated value98 kW- at 400 V rated value98 kW- at 400 V rated value98 kW- at 690 V rated value98 kW- at 690 V rated value160 000 kVA- operating apparent power at AC-6a160 000 kVA- up to 230 V for current peak value n=20 rated value280 000 VA- up to 500 V for current peak value n=20 rated value350 000 VA- up to 690 V for current peak value n=20 rated value350 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=30 rated value310 000 VA- up to 500 V for current peak value n=30 rated value110 000 VA- up to 500 V for current peak value n=30 rated value30000 VA- up to 500 V for current peak value n=30 rated value330 000 VA- up to 690 V for current peak value n=30 rated value330 000 VA	• at AC-3e	
- at 500 V rated value315 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 20000 operating cycles at AC-98 kW- at 400 V rated value98 kW- at 400 V rated value98 kW- at 690 V rated value148 kWoperating apparent power at AC-6a	— at 230 V rated value	160 kW
at 690 V rated value400 kW at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC- 498 kW- at 400 V rated value98 kW- at 690 V rated value148 kWoperating apparent power at AC-6a160 000 kVA- up to 230 V for current peak value n=20 rated value160 000 kVA- up to 500 V for current peak value n=20 rated value350 000 VA- up to 500 V for current peak value n=20 rated value350 000 VA- up to 690 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 230 V for current peak value n=20 rated value310 000 VA- up to 230 V for current peak value n=20 rated value310 000 VA- up to 230 V for current peak value n=30 rated value110 000 VA- up to 530 V for current peak value n=30 rated value230 000 VA- up to 500 V for current peak value n=30 rated value330 000 VA- up to 500 V for current peak value n=30 rated value330 000 VA	— at 400 V rated value	250 kW
at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC- 4Second Second Sec	— at 500 V rated value	315 kW
operating power for approx. 200000 operating cycles at AC- 4• at 400 V rated value98 kW• at 690 V rated value148 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value160 000 kVA• up to 400 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value230 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA	— at 690 V rated value	400 kW
4• at 400 V rated value98 kW• at 690 V rated value148 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value160 000 kVA• up to 400 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 230 V for current peak value n=20 rated value310 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 230 V for current peak value n=30 rated value190 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA• up to 500 V for current peak value n=30 rated value330 000 VA	— at 1000 V rated value	250 kW
• at 400 V rated value98 kW• at 690 V rated value148 kWoperating apparent power at AC-6a-• up to 230 V for current peak value n=20 rated value160 000 kVA• up to 400 V for current peak value n=20 rated value280 000 VA• up to 500 V for current peak value n=20 rated value350 000 VA• up to 690 V for current peak value n=20 rated value490 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 230 V for current peak value n=30 rated value110 000 VA• up to 500 V for current peak value n=30 rated value230 000 VA• up to 500 V for current peak value n=30 rated value30000 VA• up to 500 V for current peak value n=30 rated value330 000 VA		
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• up to 230 V for current peak value n=30 rated value110 000 VA• up to 400 V for current peak value n=30 rated value190 000 VA• up to 500 V for current peak value n=30 rated value230 000 VA• up to 690 V for current peak value n=30 rated value330 000 VA		310 000 VA
• up to 400 V for current peak value n=30 rated value190 000 VA• up to 500 V for current peak value n=30 rated value230 000 VA• up to 690 V for current peak value n=30 rated value330 000 VA	operating apparent power at AC-6a	
up to 500 V for current peak value n=30 rated value     230 000 VA     330 000 VA	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	110 000 VA
• up to 690 V for current peak value n=30 rated value 330 000 VA		190 000 VA
		230 000 VA
up to 1000 V for current peak value n=30 rated value     310 000 VA		330 000 VA
	• up to 1000 V for current peak value n=30 rated value	310 000 VA

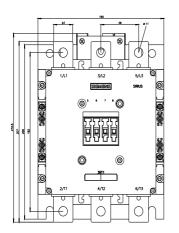
short-time withstand current in cold operating state up to 40 °C			
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	7 484 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>			
<ul> <li>limited to 0 s switching at zero current maximum</li> </ul>	7 484 A; Use minimum cross-section acc. to AC-1 rated value 5 978 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	3 765 A; Use minimum cross-section acc. to AC-1 rated value		
Imited to 50 s switching at zero current maximum     Imited 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	2 007 A, Use minimum cross-section acc. to AC-1 rated value		
• at AC	500 1/h		
• at DC	500 1/h		
	500 1/11		
operating frequency	200.4/h		
• at AC-1 maximum	200 1/h		
• at AC-2 maximum	170 1/h		
• at AC-3 maximum	200 1/h		
• at AC-3e maximum	200 1/h		
• at AC-4 maximum	130 1/h		
Control circuit/ Control	10/20		
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC	00 407.1/		
at 50 Hz rated value	96 127 V		
at 60 Hz rated value	96 127 V		
control supply voltage at DC	00 (07)/		
rated value	96 127 V		
operating range factor control supply voltage rated value of magnet coil at DC			
• initial value	0.8		
• full-scale value	1.1		
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		
type of PLC-control input according to IEC 60947-1	Type 1		
consumed current at PLC-control input according to IEC	14 mA		
60947-1 maximum			
voltage at PLC-control input rated value	24 V		
operating range factor of the voltage at PLC-control input	0.8 1.1		
design of the surge suppressor	with varistor		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	750 VA		
• at 60 Hz	750 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.8		
• at 60 Hz	0.8		
apparent holding power of magnet coil at AC			
• at 50 Hz	9 VA		
• at 60 Hz	9 VA		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.4		
• at 60 Hz	0.4		
closing power of magnet coil at DC	800 W		
holding power of magnet coil at DC	3.6 W		
closing delay			
• at AC	60 75 ms		
• at DC	60 75 ms		
opening delay			
• at AC	115 130 ms		
• at DC	115 130 ms		
recovery time after power failure typical	2 s		
arcing time	10 15 ms		
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous	2		

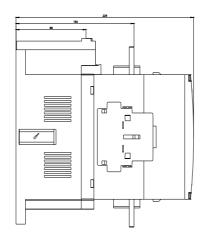
contact			
number of NO contacts for auxiliary contacts instantaneous contact	2		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
<ul> <li>at 230 V rated value</li> </ul>	6 A		
at 400 V rated value	3 A		
• at 500 V rated value	2 A		
• at 690 V rated value	1 A		
operational 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		
— at 220/230 V rated value	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 / P600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
— with type of coordination 1 required	gG: 630 A (690 V, 100 kA)		
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50		
	kA)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
side-by-side mounting	Yes		
height	214 mm		
width	160 mm		
depth	225 mm		
required spacing			
with side-by-side mounting			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
for grounded parts			
— forwards	20 mm		
— upwards	10 mm		
upmuluo			

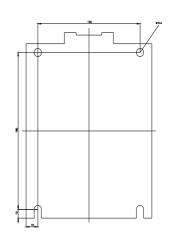
— at the side	10 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
· · · · · · · · · · · · · · · · · · ·	
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
connectable conductor cross-section for main contacts	
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— 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)
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
<ul> <li>for auxiliary contacts</li> </ul>	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
safety device type according to IEC 61508-2	Туре В
B10 value with high demand rate according to SN 31920	1 000 000
Safety Integrity Level (SIL) according to IEC 61508	2
SIL Claim Limit (subsystem) according to EN 62061	2
performance level (PL) according to EN ISO 13849-1	c
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	93 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
PFHD with high demand rate according to EN 62061	4.5E-7 1/h
PFDavg with low demand rate according to ERC 61508	0.007
MTBF	75 a
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC	20 a
61508	IP00; IP20 with box terminal/cover
protection class IP on the front according to IEC 60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
suitability for use	No
safety-related switching on	No
safety-related switching OFF	Yes
Certificates/ approvals	
General Product Approval	EMC

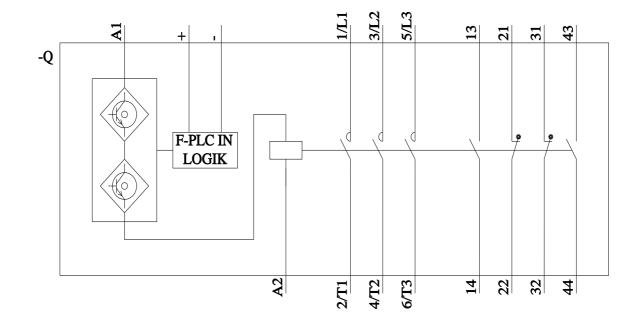
	<u>Confirmation</u>			EHC	RCM
Functional Safety/Safety of Ma- chinery	Declaration of Conform	nity	Test Certificates		other
Type Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>
other		Railway			
<b>Confirmation</b>	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	Vibration and Shock		

Further information
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
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=3RT1076-6SF36
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6SF36
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6SF36
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6SF36⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6SF36/char
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6SF36&objecttype=14&gridview=view1









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