## **SIEMENS**

Data sheet 3RT1076-2AF36



Power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, size S12 Busbar connections Operating mechanism: conventional Spring-type terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	165 W
• per pole	55 W
power loss [W] for rated value of the current without load current share typical	10 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.05.2012 00:00:00
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 acc. 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 at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	610 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	610 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	550 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	200 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	200 A
• at AC-3	500 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-4 at 400 V rated value	430 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	536 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	415 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	414 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	414 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	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
<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</li> </ul>	276 A
value  — up to 1000 V for current peak value n=30 rated  — up to 1000 V for current peak value n=30 rated	180 A
value  minimum cross-section in main circuit at maximum AC-1	370 mm <sup>2</sup>
rated value	
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 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
<ul> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	400 A

— at 110 V rated value	400 A			
— at 220 V rated value	400 A			
— at 440 V rated value	4 A			
— at 600 V rated value	2 A			
<ul> <li>with 3 current paths in series at DC-1</li> </ul>				
— at 24 V rated value	400 A			
— at 110 V rated value	400 A			
— at 220 V rated value	400 A			
— at 440 V rated value	11 A			
— at 600 V rated value	5.2 A			
operational current				
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	400 A			
— at 110 V rated value	3 A			
— at 220 V rated value	0.6 A			
— at 440 V rated value	0.18 A			
— at 600 V rated value	0.125 A			
	U. 120 A			
with 2 current paths in series at DC-3 at DC-5  at 24 V rated value	400 A			
— at 110 V rated value	400 A			
— at 220 V rated value	2.5 A			
— at 440 V rated value	0.65 A			
— at 600 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 110 V rated value	400 A			
— at 220 V rated value	400 A			
— at 440 V rated value	1.4 A			
— at 600 V rated value	0.75 A			
operating power				
• at AC-3	400 LW			
• at AC-3 — at 230 V rated value	160 kW			
<ul><li>at AC-3</li><li>— at 230 V rated value</li><li>— at 400 V rated value</li></ul>	250 kW			
<ul> <li>at AC-3</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul>	250 kW 315 kW			
<ul> <li>at AC-3</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	250 kW 315 kW 400 kW			
<ul> <li>at AC-3</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> </ul>	250 kW 315 kW			
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  operating power for approx. 200000 operating cycles	250 kW 315 kW 400 kW			
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  operating power for approx. 200000 operating cycles at AC-4	250 kW 315 kW 400 kW 250 kW			
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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value	250 kW 315 kW 400 kW 250 kW			
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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value	250 kW 315 kW 400 kW 250 kW			
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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a	250 kW 315 kW 400 kW 250 kW			
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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value	250 kW 315 kW 400 kW 250 kW 98 kW 148 kW			
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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value	250 kW 315 kW 400 kW 250 kW 98 kW 148 kW 160 000 kV·A 280 000 V·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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value	250 kW 315 kW 400 kW 250 kW 98 kW 148 kW 160 000 kV·A 280 000 V·A 350 000 V·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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value	250 kW 315 kW 400 kW 250 kW 98 kW 148 kW 160 000 kV·A 280 000 V·A 350 000 V·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 1000 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·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 1000 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A			
at AC-3  at 230 V rated value  at 400 V rated value  at 690 V rated value  at 1000 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 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  oup to 1000 V for current peak value n=20 rated value  operating apparent power at AC-6a	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A 310 000 V·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 1000 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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  up to 400 V for current peak value n=30 rated value  up to 400 V for current peak value n=30 rated value	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A 310 000 V·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 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 310 000 V·A 310 000 V·A			
at AC-3  at 230 V rated value  at 400 V rated value  at 690 V rated value  at 1000 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 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 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 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	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A 310 000 V·A 110 000 V·A 230 000 V·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 400 V rated value  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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  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 1000 V for current peak value n=30 rated value  short-time withstand current in cold operating state	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A 310 000 V·A 110 000 V·A 190 000 V·A 230 000 V·A 330 000 V·A			
at AC-3  at 230 V rated value  at 400 V rated value  at 690 V rated value  at 1000 V rated value  at 1000 V rated value  at 400 V rated value  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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 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 1000 V for current peak value n=30 rated value  up to 1000 V for current peak value n=30 rated value  sup 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  short-time withstand current in cold operating state up to 40 °C	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A 310 000 V·A 110 000 V·A 230 000 V·A 330 000 V·A 310 000 V·A 310 000 V·A			
<ul> <li>at AC-3 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> </ul> </li> <li>operating power for approx. 200000 operating cycles at AC-4 <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>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 230 V for current peak value n=20 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 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>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>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> </ul> </li> </ul>	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 310 000 V·A  110 000 V·A 190 000 V·A 230 000 V·A 330 000 V·A 310 000 V·A 310 000 V·A			
at AC-3  at 230 V rated value  at 400 V rated value  at 690 V rated value  at 1000 V rated value  at 1000 V rated value  at 400 V rated value  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 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 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 1000 V for current peak value n=30 rated value  up to 1000 V for current peak value n=30 rated value  sup 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  short-time withstand current in cold operating state up to 40 °C	250 kW 315 kW 400 kW 250 kW  98 kW 148 kW  160 000 kV·A 280 000 V·A 350 000 V·A 490 000 V·A 310 000 V·A 110 000 V·A 230 000 V·A 330 000 V·A 310 000 V·A 310 000 V·A			

<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			
Iimited 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				
<ul><li>at AC-1 maximum</li></ul>	500 1/h			
<ul> <li>at AC-2 maximum</li> </ul>	170 1/h			
<ul><li>at AC-3 maximum</li></ul>	420 1/h			
at AC-4 maximum	130 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC				
<ul> <li>at 50 Hz rated value</li> </ul>	110 127 V			
at 60 Hz rated value	110 127 V			
control supply voltage at DC				
rated value	110 127 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			
design of the surge suppressor	with varistor			
apparent pick-up power of magnet coil at AC				
● at 50 Hz	830 V·A			
• at 60 Hz	830 V·A			
inductive power factor with closing power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
apparent holding power of magnet coil at AC				
● at 50 Hz	9.2 V·A			
• at 60 Hz	9.2 V·A			
inductive power factor with the holding power of the coil				
● at 50 Hz	0.9			
• at 60 Hz	0.9			
closing power of magnet coil at DC	920 W			
holding power of magnet coil at DC	10 W			
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	Standard A1 - A2			
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			
<ul> <li>at 400 V rated value</li> </ul>	3 A			
• at 500 V rated value	2 A			

<ul> <li>at 690 V rated value</li> </ul>	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 10 V rated value     at 110 V rated value				
	3 A			
at 125 V rated value	2 A			
<ul> <li>at 220 V rated value</li> </ul>	1 A			
at 600 V rated value	0.15 A			
operational current at DC-13				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	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			
<ul> <li>at 600 V rated value</li> </ul>	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				
— at 400/400 V rated value	400 hp			
	500 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
Short-circuit protection design of the fuse link				
design of the fuse link	gG: 630 A (690 V, 100 kA)			
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>				
design of the fuse link  • for short-circuit protection of the main circuit	gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)			
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415			
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <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 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 10 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 10 mm			
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design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 10 mm 0 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 10 mm 0 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  0 mm 0 mm 0 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  0 mm 0 mm 0 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — at the side  • downwards  — at the side  — downwards  — at the side  — downwards  — at the side  — forwards  — forwards	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
design of the fuse link	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm			

— downwards	10 mm				
— at the side	10 mm				
Connections/ Terminals					
width of connection bar	25 mm				
thickness of connection bar	6 mm				
diameter of holes	11 mm				
number of holes	1				
type of electrical connection					
for main current circuit	Connection bar				
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals				
<ul><li>of magnet coil</li></ul>	Spring-type terminals				
type of connectable conductor cross-sections					
<ul> <li>at AWG cables for main contacts</li> </ul>	2/0 500 kcmil				
connectable conductor cross-section for main contacts					
<ul><li>stranded</li></ul>	70 240 mm²				
connectable conductor cross-section for auxiliary contacts					
<ul> <li>solid or stranded</li> </ul>	0.25 2.5 mm <sup>2</sup>				
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²				
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 2.5 mm²				
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid	2x (0.25 2.5 mm²)				
<ul><li>— solid or stranded</li></ul>	2x (0,25 2,5 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)				
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 2.5 mm²)				
at AWG cables for auxiliary contacts	2x (24 14)				
AWG number as coded connectable conductor cross					
section	0.4				
for auxiliary contacts	24 14				
Safety related data	v				
product function mirror contact acc. to IEC 60947-4-1	Yes				
B10 value with high demand rate acc. to SN 31920	1 000 000				
product function positively driven operation acc. to IEC 60947-5-1	No				
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical conta	act from the front with bo	ox terminal/cover		
suitability for use					
safety-related switching OFF	Yes				
Certificates/ approvals					
General Product Approval		EMC	Functional Safety/Safety of		

Machinery











Type Examination Certificate

**Test Certificates** Marine / Shipping

other

Type Test Certificates/Test Report

**Special Test Certific**ate





Confirmation

**Miscellaneous** 

other Railway

**Special Test Certific-**Confirmation **Miscellaneous** 

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-2AF36

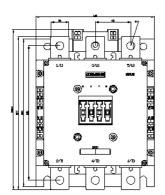
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

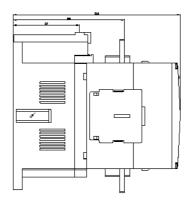
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1076-2AF36&lang=en

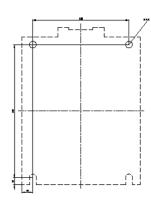
Characteristic: Tripping characteristics, I2t, Let-through current

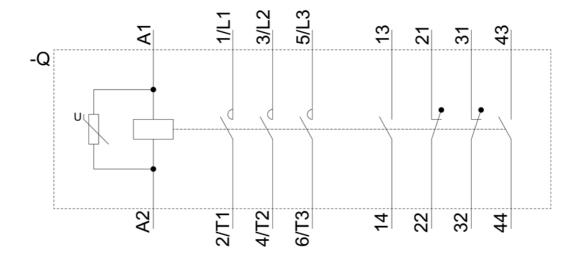
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-2AF36/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-2AF36&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-2AF36&objecttype=14&gridview=view1</a>









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