## **SIEMENS**

Data sheet 3RT1065-6AF36



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal

product type designation product type designation General technical data size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • at AC • at DC  shock resistance at rectangular impulse • at AC • at DC  shock resistance with sine pulse • at AC • at DC  shock resistance with sine pulse • at AC • at DC  shock resistance with sine pulse • at AC • at DC  or ontactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the	product brand name	SIRIUS
Size of contactor   S10	product designation	Power contactor
size of contactor  product extension  • function module for communication  • auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state pole  • without load current share typical  • of main circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit value  surge voltage resistance  • of main circuit rated value  • of auxiliary circuit rated value  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typica	product type designation	3RT1
product extension  • function module for communication • auxilliary switch  power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value  above the collador of the conditions • at AC • at DC  shock resistance at rectangular impulse • at AC • at DC  shock resistance with sine pulse •	General technical data	
• function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state 54 W • at AC in hot operating state 18 W • without load current share typical 7.4 W  insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value  • of main circuit rated value  usurge voltage resistance • of main circuit rated value • of auxiliary circuit rated value  maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at AC • at DC 8.5g / 5 ms, 4.2g / 10 ms  shock resistance with sine pulse • at AC • at DC 13.4g / 5 ms, 6.5g / 10 ms  mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum • during operation  Pyes  1 8 W  1 8 W  7.4 W  1 000 V  5 500 V  2 10 000 V  5 500 V  8 kV  6 8 V  6 90	size of contactor	S10
auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole without load current share typical  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value at aC in auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value  of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value  surge voltage resistance of main circuit rated value of auxiliary circuit rated value  surge voltage resistance of main circuit rated value of auxiliary circuit rated value  surge voltage resistance of auxiliary circuit rated value of axiliary circuit rated value  surge voltage resistance of auxiliary circuit rated value of a will circuit rated value  surge voltage resistance of axiliary circuit rated value of axiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea level maximum oxivity and the contactor with adove sea	product extension	
power loss [W] for rated value of the current  at AC in hot operating state  at AC in hot operating state per pole  without load current share typical  of main circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit rated value  of main circuit rated value  of main circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  surge voltage resistance  of main circuit rated value  of auxiliary circuit rated value  of solot vesistance at rectangular impulse  of at AC  of at DC  shock resistance at rectangular impulse  of AC  of at DC  shock resistance with sine pulse  of AC  of C  at DC  shock resistance with sine pulse  of the contactor typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oduring operation  5 4 W  1 000 V  5 4 W  1 000 V  5 4 W  5 4 W  6 W  6 90 V  6 99 V  6 90 V	<ul> <li>function module for communication</li> </ul>	No
at AC in hot operating state   at AC in hot operating state per pole   without load current share typical   insulation voltage   of main circuit with degree of pollution 3 rated value   of auxiliary circuit with degree of pollution 3 rated value   value   surge voltage resistance   of main circuit rated value   of auxiliary circuit rated value   of at AC   of auxiliary circuit rated value   of at AC   of contactor with sine pulse   of contactor typical   of the contactor with added electronically optimized   of the contactor with added electronically optimized   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block typical   of the contactor with added auxiliary switch block   typical   of the contactor with added auxiliary switch block   typical   of the contactor with added auxiliary switch block   typical   of the contactor with added auxiliary switch block   typical   of the contactor with added auxiliary switch block   typical   of the contactor with added auxiliary switch block   typical	auxiliary switch	Yes
at AC in hot operating state per pole without load current share typical insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of auxiliary switch line pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Questions of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Questions of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Questions of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Questions of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical	power loss [W] for rated value of the current	
insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of solution between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of at DC of contact with sine pulse of at AC of contactor with sine pulse of contactor life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical	<ul> <li>at AC in hot operating state</li> </ul>	54 W
insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value  in of auxiliary circuit rated value of auxiliary circuit rated value  maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse of at AC at DC shock resistance with sine pulse of at AC at DC shock resistance with sine pulse of at AC at DC shock resistance with sine pulse of the Contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added	<ul> <li>at AC in hot operating state per pole</li> </ul>	18 W
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     aximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     of at AC     of of contactor with sine pulse     of the Contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with	<ul> <li>without load current share typical</li> </ul>	7.4 W
of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of the Contacts according to EN 60947-1  shock resistance at rectangular impulse     of at AC     of Contactor with sine pulse     of the Contactor with sine pulse     of the contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block     of	insulation voltage	
surge voltage resistance  of main circuit rated value of auxiliary circuit rated value  maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse ot AC ot DC shock resistance with sine pulse ot AC ot DC shock resistance with sine pulse ot AC ot DC shock resistance with sine pulse of the contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of main circuit rated value     of auxiliary circuit rated value     amximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1      shock resistance at rectangular impulse     o at AC     o at DC     shock resistance with sine pulse     o at AC     o at DC     shock resistance with sine pulse     o at AC     o at DC     shock resistance with sine pulse     or at AC     o at DC     shock resistance with sine pulse     or at AC     o at DC     shock resistance with sine pulse     or at AC     o at DC     shock resistance with sine pulse     or at AC     o at DC     shock resistance with sine pulse     or at AC     or at DC     shock resistance with added electronically optimized     or of the contactor typical     or of the contactor with added electronically optimized     auxiliary switch block typical     or of the contactor with added auxiliary switch block     typical     or of the contactor with added auxiliary switch block     typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation   8 kV  6 kV  690 V  890 V		500 V
of auxiliary circuit rated value     maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     oat AC     oat DC  shock resistance with sine pulse     oat AC     oat DC  at DC  of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation  690 V	surge voltage resistance	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC • at DC  shock resistance with sine pulse • at AC • at DC  shock resistance with sine pulse • at AC • at DC  13,4g / 5 ms, 4,2g / 10 ms  shock resistance with sine pulse • at AC • at DC  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation  690 V  8,5g / 5 ms, 4,2g / 10 ms  13,4g / 5 ms, 6,5g / 10 ms  10 000 000  10 000 000  10 000 000  10 000 00	<ul> <li>of main circuit rated value</li> </ul>	8 kV
shock resistance at rectangular impulse  at AC at DC at AC at DC at AC a	of auxiliary circuit rated value	6 kV
<ul> <li>at AC</li> <li>at DC</li> <li>8,5g / 5 ms, 4,2g / 10 ms</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>a to 000 000</li> <li>a to 000 000</li> <li>b to 000 000</li> <li>c 2000 m</li> <li>a to 000 000</li> <li></li></ul>		690 V
at DC  shock resistance with sine pulse  at AC  at DC  to at DC  of contactor typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  8,5g / 5 ms, 4,2g / 10 ms  13,4g / 5 ms, 6,5g / 10 ms  10,000,000  10,000,000  10,000,000  10,000,00	shock resistance at rectangular impulse	
shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (switching cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  13,4g / 5 ms, 6,5g / 10 ms  10 000 000  10 000 000  10 000 000  10 000 00	• at AC	8,5g / 5 ms, 4,2g / 10 ms
<ul> <li>at AC</li> <li>at DC</li> <li>mechanical service life (switching cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>-25 +60 °C</li> </ul>	• at DC	8,5g / 5 ms, 4,2g / 10 ms
at DC      mechanical service life (switching cycles)     of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical      reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation  10,000,000  10,	shock resistance with sine pulse	
mechanical service life (switching cycles)  of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  O5/01/2012  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation  10 000 000 1	• at AC	13,4g / 5 ms, 6,5g / 10 ms
<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>10 000 000</li> <li>20 000 000</li> </ul>	• at DC	13,4g / 5 ms, 6,5g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical      reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation  5 000 000  10 000 000  10 000 000  10 000 00	mechanical service life (switching cycles)	
auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum  ambient temperature of during operation  10 000 000  10 000 000  10 000 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  20 000  30 000  40 000	<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012  Ambient conditions installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -25 +60 °C		5 000 000
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  05/01/2012  2 000 m  -25 +60 °C	· · · · · · · · · · · · · · · · · · ·	10 000 000
Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  ● during operation  -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
ambient temperature  ● during operation  -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
◆ during storage     −55 +80 °C	<ul> <li>during operation</li> </ul>	-25 +60 °C
	during storage	-55 +80 °C

relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		
lain circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	_ 3		
operating voltage	3		
at AC-3 rated value maximum	1 000 \/		
at AC-3 rated value maximum     at AC-3e rated value maximum	1 000 V 1 000 V		
operational current	1 000 V		
• at AC-1 at 400 V at ambient temperature 40 °C	330 A		
rated value	000 A		
• at AC-1			
— up to 690 V at ambient temperature 40 °C	330 A		
rated value			
— up to 690 V at ambient temperature 60 °C	300 A		
rated value			
— up to 1000 V at ambient temperature 40 °C	150 A		
rated value — up to 1000 V at ambient temperature 60 °C	150 A		
rated value	100 Λ		
• at AC-3			
— at 400 V rated value	265 A		
— at 500 V rated value	265 A		
— at 690 V rated value	265 A		
— at 1000 V rated value	95 A		
• at AC-3e			
— at 400 V rated value	265 A		
— at 500 V rated value	265 A		
— at 1000 V rated value	95 A		
at AC-4 at 400 V rated value	230 A		
at AC-5a up to 690 V rated value	290 A		
at AC-5b up to 400 V rated value	219 A		
• at AC-6a	210 A		
— up to 230 V for current peak value n=20 rated	265 A		
value	200 A		
— up to 400 V for current peak value n=20 rated	265 A		
value			
— up to 500 V for current peak value n=20 rated	265 A		
value	207.4		
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	265 A		
— up to 1000 V for current peak value n=20 rated	95 A		
value	00 N		
• at AC-6a			
— up to 230 V for current peak value n=30 rated	184 A		
value			
— up to 400 V for current peak value n=30 rated	184 A		
value			
— up to 500 V for current peak value n=30 rated	184 A		
value	19.4 Λ		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	184 A		
— up to 1000 V for current peak value n=30 rated	95 A		
value			
minimum cross-section in main circuit at maximum AC-1	185 mm²		
rated value			
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	117 A		
at 690 V rated value     at 690 V rated value	105 A		
	100 Λ		
operational current			
at 1 current path at DC-1     at 241/ rated value.	200 A		
— at 24 V rated value	300 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	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 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	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— 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 24 V rated value	300 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
<ul><li>with 2 current paths in series at DC-3 at DC-5</li></ul>	
— at 24 V rated value	300 A
— at 110 V rated value	300 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	66 kW
at 690 V rated value	102 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	100 000 kVA
• up to 400 V for current peak value n=20 rated value	180 000 VA
• up to 500 V for current peak value n=20 rated value	220 000 VA
• up to 690 V for current peak value n=20 rated value	310 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated</li> </ul>	160 000 VA
value	
operating apparent power at AC-6a	70 000 \/A
up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value	70 000 VA 120 000 VA
• up to 400 V for current peak value n=30 rated value	
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	150 000 VA

<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	220 000 VA		
up to 1000 V for current peak value n=30 rated	160 000 VA		
value			
short-time withstand current in cold operating state up to 40 °C			
limited to 1 s switching at zero current maximum	4 880 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 5 s switching at zero current maximum	4 045 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 3 switching at zero current maximum	2 785 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 10 s switching at zero current maximum     limited to 30 s switching at zero current maximum	1 664 A; Use minimum cross-section acc. to AC-1 rated value		
-			
Iimited to 60 s switching at zero current maximum	1 276 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency	0.000.475		
• at AC	2 000 1/h		
• at DC	2 000 1/h		
operating frequency	000.44		
• at AC-1 maximum	800 1/h		
at AC-2 maximum	300 1/h		
• at AC-3 maximum	700 1/h		
<ul> <li>at AC-3e maximum</li> </ul>	700 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			
at 50 Hz rated value	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	590 VA		
● at 60 Hz	590 VA		
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	0.0		
• at 50 Hz	6.7 VA		
• at 60 Hz	6.7 VA		
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	650 W		
holding power of magnet coil at DC	7.4 W		
closing delay			
• at AC	30 95 ms		
• at DC	30 95 ms		
opening delay	33 33 III		
• at AC	40 80 ms		
• at AC • at DC	40 80 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	2		
instantaneous contact	10 A		
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	40.0		
• at 24 V rated value	10 A		
at 48 V rated value	6 A		
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	6 A		
at 110 V rated value     at 125 V rated value	3 A 2 A		
at 220 V rated value	1 A		
at 600 V rated value	0.15 A		
operational current at DC-13	0.15 A		
at 24 V rated value	10 A		
at 24 V rated value     at 48 V rated value	2 A		
at 46 V rated value     at 60 V rated value	2 A		
at 60 V rated value      at 110 V rated value	1 A		
at 110 V rated value     at 125 V rated value	0.9 A		
at 125 V rated value     at 220 V rated value	0.9 A 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	Tradity Switching per 100 million (17 V, 1 mz)		
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	240 A		
at 600 V rated value	242 A		
yielded mechanical performance [hp]	2-12 / \		
• for 3-phase AC motor			
— at 200/208 V rated value	75 hp		
— at 220/230 V rated value	100 hp		
— at 460/480 V rated value	200 hp		
— at 575/600 V rated value	250 hp		
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
with type of coordination 1 required			
with type of assignment 2 required	gG: 500 A (690 V, 100 kA)		
with type of abolgiment 2 required	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415		
	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)		
for short-circuit protection of the auxiliary switch	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415		
for short-circuit protection of the auxiliary switch required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)		
for short-circuit protection of the auxiliary switch	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method     side-by-side mounting	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method     side-by-side mounting height	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method     side-by-side mounting height width	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method     side-by-side mounting  height  width  depth	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 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 210 mm 145 mm 202 mm  20 mm 10 mm 10 mm		

-4 4b: d-	40	
— 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		
for main current circuit	Connection bar	
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	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	
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		
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)	
<ul><li>— solid or stranded</li></ul>	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>at AWG cables for auxiliary contacts</li> </ul>	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		
mirror contact according to IEC 60947-4-1	Yes	
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	No	
B10 value with high demand rate according to SN 31920	1 000 000	
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	
suitability for use		
safety-related switching OFF	Yes	
Certificates/ approvals		
General Product Approval		

## **General Product Approval**



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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## Type Examination Certificate



Type Test Certificates/Test Report

Special Test Certificate

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











other Railway

<u>Miscellaneous</u> <u>Confirmation</u> <u>Miscellaneous</u> <u>Confirmation</u> <u>Special Test Certificate</u>

## **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=3RT1065-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AF36

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-6AF36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AF36/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AF36&objecttype=14&gridview=view1

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