## SIEMENS

## Data sheet

## 3RT1065-2XB46-0LA2



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V Uc: 24 V DC x (0.7-1.25) PLC input 24-110 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal extended rated condition railroad IEC 60077

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT1
General technical data	
size of contactor	S10
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>	54 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	18 W
<ul> <li>without load current share typical</li> </ul>	3.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance for railway applications according to EN 61373	Category 1, Class B
shock resistance at rectangular impulse	
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	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)	09/06/2016
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Aain circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
number of NC contacts for main contacts	0		
operating voltage			
at AC-3 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 value	330 A		
<ul> <li>at AC-1         <ul> <li>up to 690 V at ambient temperature 40 °C rated</li> <li>value</li> </ul> </li> </ul>	330 A		
value — up to 690 V at ambient temperature 60 °C rated value	300 A		
— up to 1000 V at ambient temperature 60 °C rated value	150 A		
at AC-2 at 400 V rated value	265 A		
• 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		
minimum cross-section in main circuit			
• at maximum AC-1 rated value	185 mm²		
• at maximum Ith rated value	185 mm²		
operational current for approx. 200000 operating cycles at AC-4			
• at 400 V rated value	117 A		
• at 690 V rated value	105 A		
operational current			
• at 1 current path at DC-1			
— 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		
<ul> <li>with 2 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	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-2 at 400 V rated value	132 kW
• at AC-3	
— at 230 V rated value	85 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	85 kW
— at 200 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
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>	4 880 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 045 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	2 785 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 664 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	1 276 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	700 1/h
operating frequency	
• at AC-1 maximum	700 1/h
<ul> <li>at AC-2 maximum</li> </ul>	250 1/h
• at AC-3 maximum	500 1/h
<ul> <li>at AC-3e maximum</li> </ul>	500 1/h
<ul> <li>at AC-2 at AC-3e maximum</li> </ul>	250 1/h
at AC-4 maximum	130 1/h
operating frequency	
● at DC-1 maximum	350 1/h
• at DC-3 maximum	350 1/h
● at DC-5 maximum	350 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
<ul> <li>up to 40 °C according to IEC 60077 rated value</li> </ul>	330 A
<ul> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	265 A
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of	
magnet coil at DC	0.7
initial value	0.7
full-scale value	1.25
consumed current at PLC-control input according to IEC 60947-1 maximum	2 mA

desing power of magnet coil at DC     980 W       holding power of magnet coil at DC     980 W       holding power of magnet coil at DC     34 W       closing delay     6		
closing power of magnet coil at DC     580 W       holding power of magnet coil at DC     34 W       closing delay     45 80 ms       • at DC     45 80 ms       • at DC     80 100 ms       arcing time     10 15 ms       control version of the switch operating mechanism     PLC-Nor Standard A1 - A2 (adjustable)       Auxiliary victosit     2       • instantaneous contacts for auxiliary contacts     2       • instantaneous contact     2       • at 200 V rated value     6 A       • at 300 V rated value     10 A       • at 400 V rated value     6 A       • at 400 V rated value     10 A       • at 400 V rated value     6 A       • at 400 V rated value     10 A       • at 60 V rated value     6 A       • at 60 V rated value     10 A       • at 60 V rated value     10 A       • at 60 V rated value     10 A       • at 210 V rated value     10 A       • at 210 V rated value     10 A       • at 40 V rated value     1	voltage at PLC-control input	24 110 V
holding power of magnet coll at DC     3.4 W       closing delay		
closing delay     45 80 ms       • at DC     45 80 ms       • at DC     80 100 ms       arcing time     10 15 ms       control version of the switch operating mechanism     PLC-IN or Standard A1 - A2 (adjustable)       Auxiliary circuit     2       • instantaneous contact     2       • instantaneous contact     2       • instantaneous contact     2       • instantaneous contact     2       • operational current at AC-15     2       • at 300 V rated value     6 A       • at 430 V rated value     75 A       • operational current at DC-13     •       • at 600 V rated value     6 A       • at 600 V rated value     6 A       • at 600 V rated value     75 A       • operational current at DC-13     •       • at 600 V rated value     74 A       <		
• at DC     45 80 ms       opening dolay     •       • at DC     80 100 ms       arcing time     10 15 ms       control version of the switch operating mechanism     PLC-IN or Standard A1 - A2 (adjustable)       Auxiliary circuit     2       number of NC contacts for auxiliary contacts     2       • instantaneous contact     2       operational current at AC-12 moximum     10 A       operational current at AC-15     •       • at 200 V rated value     3 A       • at 300 V rated value     2 A       operational current at AC-12     •       • at 300 V rated value     0 A       • at 400 V rated value     0 A       • at 400 V rated value     0 A       • at 400 V rated value     0 A       • at 300 V rated value     0 A       • at 300 V rated value     0 A       • at 20 V rated value     0 A       • at 80 V rated value     0 A       • at 80 V rated value     0 A       • at 80 V rated value     0 A		3.4 W
opening delay         80 100 ms           exing time         10 15 ms           control version of the switch operating mechanism         PLC-IN or Standard A1 - A2 (adjustable)           Availary streat         2           • instantaneous contact         2           • at 300 V rated value         6 A           • at 400 V rated value         6 A           • at 400 V rated value         6 A           • at 300 V rated value         0.15 A           operational current at DC-13         •           • at 300 V rated value         2 A           • at 400 V rated value         2 A           • at 400 V rated value         2 A		
• et DC         80 100 ms           arcing time         10 11 ms           control version of the switch operating mechanism         PUC-Nor Standard A1 - A2 (adjustable)           Auxiliary circuit         2           number of NC contacts for auxiliary contacts         2           einstantaneous contact         2           operational current at AC-12 maximum         10 A           operational current at AC-12 maximum         10 A           operational current at AC-12         4           operational current at DC-12         6           • at 20 V rated value         2 A           operational current at DC-12         0 A           • at 20 V rated value         6 A           • at 20 V rated value         0.15 A           operational current at DC-13         6           • at 20 V rated value         0.16 A           • at 20 V rated value         0.3 A           • at 20 V rated value         0.3 A           • at 40 V rated value         0.4 A           • at 20 V rated value         0.4 A		45 80 ms
arcing time     10 15 ms       control version of the switch operating mechanism     PLC-Nor Standard A1 - A2 (adjustable)       Auxiliary circuit       number of NC contacts for auxiliary contacts     2       • instantaneous contact     2       operational current at AC-15 maximum     10 A       operational current at AC-15     6 A       • at 400 V rated value     3 A       • at 400 V rated value     2 A       operational current at DC-12		
control version of the switch operating mechanism         PLC-IN or Standard A1 - A2 (adjustable)           Auxiliary circuit            number of NC contacts for auxiliary contacts         2           • instantaneous contact         2           operational current at AC-12 maximum         10 A           operational current at DC-12         3           • at 20 V rated value         6 A           • at 40 V rated value         0 A           • at 40 V rated value         6 A           • at 60 V rated value         0 A           • at 60 V rated value         0.15 A           operational current at DC-13         •           • at 24 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 10 V rated value		
Auxiliary circuit       2         number of NC contacts for auxiliary contacts       2         instantaneous contact       2         operational current at AC-15       2         is at 200 V rated value       6 A         is at 300 V rated value       3 A         is at 500 V rated value       6 A         is at 400 V rated value       6 A         is at 200 V rated value       6 A         is at 20 V rated value       6 A         is at 20 V rated value       6 A         is at 20 V rated value       7 A         is at 20 V rated value       6 A         is at 20 V rated value       0.15 A         operational current is DC-13       6 A         is at 20 V rated value       2 A         is at 2		
number of NC contacts for auxiliary contacts     2       • instantaneous contact     2       • instantaneous contact     2       • operational current at AC-12 maximum     10 A       operational current at AC-15     6       • at 230 V rated value     6 A       • at 240 V rated value     2 A       operational current at DC-15     6       • at 250 V rated value     2 A       operational current at DC-12     10 A       • at 24 V rated value     6 A       • at 24 V rated value     6 A       • at 25 V rated value     2 A       • at 26 V rated value     6 A       • at 27 V rated value     10 A       • at 27 V rated value     6 A       • at 28 V rated value     2 A       • at 29 V rated value     10 A       • at 20 V rated value     2 A       • at 20 V rated value     2 A       • at 20 V rated value     2 A       • at 20 V rated value     0 A       • at 20 V rated value <td>· •</td> <td>PLC-IN or Standard A1 - A2 (adjustable)</td>	· •	PLC-IN or Standard A1 - A2 (adjustable)
• instantaneous contact     2       number of NO contacts for auxiliary contacts     2       operational current at AC-12 maximum     10 A       operational current at AC-15		
number of NO contacts for auxiliary contacts     2       • instantaneous contact     2       operational current at AC-15     0A       • at 200 V rated value     6A       • at 200 V rated value     3A       • at 500 V rated value     2A       operational current at DC-12     0A       operational current at DC-12     0A       • at 20 V rated value     0A       • at 24 % V rated value     6A       • at 24 % V rated value     6A       • at 25 V rated value     6A       • at 210 V rated value     6A       • at 210 V rated value     6A       • at 210 V rated value     6A       • at 220 V rated value     0A       • at 60 V rated value     0A       • at 60 V rated value     0A       • at 60 V rated value     0A       • at 220 V rated value     0A       • at 220 V rated value     0A       • at 60 V rated value     0A    <	-	
• instantaneous contact          2            operational current at AC-12 maximum          10 A           operational current at AC-15          6 A           • at 230 V rated value          3 A           • at 500 V rated value          3 A           • at 500 V rated value          3 A           • at 600 V rated value          6 A           • at 80 V rated value          6 A           • at 125 V rated value          7 A           • at 220 V rated value          7 A           • at 80 V rated value          7 A           • at 80 V rated value          7 A           • at 60 V rated value          7 A           • at 60 V rated value          7 A           • at 110 V rated value          7 A           • at 80 V rated value          7 A           • at 60 V rated value          7 A           • at 80 V rated value          7 A           • at 220 V rated value <td>instantaneous contact</td> <td></td>	instantaneous contact	
operational current at AC-12 maximum     10 A       operational current at AC-15     6 A       • at 230 V rated value     3 A       • at 400 V rated value     2 A       operational current at DC-12	number of NO contacts for auxiliary contacts	
operational current at AC-15       6 A         • at 230 V rated value       3 A         • at 500 V rated value       2 A         operational current at DC-12       10 A         • at 48 V rated value       6 A         • at 24 V rated value       6 A         • at 250 V rated value       2 A         • at 250 V rated value       6 A         • at 10 V rated value       6 A         • at 125 V rated value       2 A         • at 250 V rated value       1 A         • at 600 V rated value       0 15 A         operational current at DC-13       •         • at 24 V rated value       2 A         • at 24 V rated value       2 A         • at 24 V rated value       2 A         • at 10 V rated value       2 A         • at 24 V rated value       0 A         • at 25 V rated value       0 A         • at 20 V rated value       0 A         • at 40 V rated value       240 A         • at 600 V rated value       240 A         • at 600 V rated value       240 A         • at 600 V rated value	instantaneous contact	
• at 230 V rated value     6 A       • at 200 V rated value     3 A       • at 500 V rated value     2 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     6 A       • at 10 V rated value     6 A       • at 24 V rated value     0 A       • at 25 V rated value     1 A       • at 600 V rated value     0 15 A       operational current at DC-13     •       • at 24 V rated value     2 A       • at 600 V rated value     2 A       • at 600 V rated value     0 15 A       operational current at DC-13     •       • at 24 V rated value     2 A       • at 60 V rated value     2 A       • at 60 V rated value     2 A       • at 110 V rated value     0 A       • at 25 V rated value     0 A       • at 20 V rated value     0 A       • at 20 V rated value     0 A       • at 20 V rated value     240 A       • at 600 V rated value     242 A       • at 600 V rated value     242 A       • at 600 V rated value     200 A       • at 600 V rated value     200 A       • at 600 V rated value     200 A </td <td>operational current at AC-12 maximum</td> <td>10 A</td>	operational current at AC-12 maximum	10 A
• at 400 V rated value     3 A       • at 500 V rated value     2 A       operational current at DC-12     •       • at 48 V rated value     6 A       • at 48 V rated value     6 A       • at 100 V rated value     3 A       • at 100 V rated value     3 A       • at 110 V rated value     3 A       • at 125 V rated value     3 A       • at 220 V rated value     3 A       • at 220 V rated value     1 A       • at 600 V rated value     0 5 A       • at 600 V rated value     0 5 A       • at 600 V rated value     1 A       • at 600 V rated value     2 A       • at 60 V rated value     1 A       • at 60 V rated value     1 A       • at 60 V rated value     0 3 A       • at 220 V rated value     0 1 A       ULCSA ratings     100 V rated value       • at 600 V rated value     242 A       yielded mechanical performance [hp]     •       • at 7500 V rated value     240 A       • at 600 V rated value     240 A       • at 600 V rated value     260 hp       - at 220230 V rated value     260 hp       - at 575600 V rated	operational current at AC-15	
• at 500 V rated value2 Aoperational current at DC-12		
operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>6 A</li> <li>at 60 V rated value</li> <li>6 A</li> <li>at 110 V rated value</li> <li>3 A</li> <li>at 125 V rated value</li> <li>2 A</li> <li>at 220 V rated value</li> <li>0.15 A</li> </ul> <li>operational current at DC-13</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 48 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>at 42 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>at 42 V rated value</li> <li>2 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 10 V rated value</li> <li>2 A</li> <li>at 10 V rated value</li> <li>2 A</li> <li>at 10 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.1 A</li> <li>ULCSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 600 V rated value</li> <li>240 A</li> <li>at 600 V rated value</li> <li>250 hp</li> <li>at 200/280 V rated value</li> <li>250 hp</li> <li>at 575/600 V ra</li>		
• at 24 V rated value       10 A         • at 44 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       0.15 A         operational current at DC-13       •         • at 24 V rated value       0.15 A         operational current at DC-13       •         • at 24 V rated value       2 A         • at 24 V rated value       2 A         • at 48 V rated value       2 A         • at 24 V rated value       0.15 A         operational current at DC-13       •         • at 24 V rated value       0.2 A         • at 40 V rated value       2 A         • at 10 V rated value       0.9 A         • at 125 V rated value       0.9 A         • at 220 V rated value       0.1 A         UL/CSA ratings       •         full-load current (FLA) for 3-phase AC motor       •         • at 400 V rated value       240 A         • at 600 V rated value       240 A         • at 600 V rated value       200 hp         - at 200/208 V rated value       200 hp         - at 200/208 V rated value       250 hp		2 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       6 A         • at 24 V rated value       2 A         • at 48 V rated value       2 A         • at 25 V rated value       2 A         • at 48 V rated value       2 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       0 9 A         • at 22 V rated value       0 3 A         • at 220 V rated value       0 3 A         • at 600 V rated value       240 A         • at 600 V rated value       260 A         • at 600 V rated value       260 A         • at 600 V rated	operational current at DC-12	
• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 260 V rated value0.15 Aoperational current at DC-136 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 10 V rated value0.9 A• at 10 V rated value0.3 A• at 60 V rated value0.1 AU/CSA ratings0.1 AU/CSA ratings240 A• at 600 V rated value242 A• at 600 V rated value240 A• at 600 V rated value242 A• at 600 V rated value240 A• at 600 V rated value250 hp• at 202028 V rated value75 hp- at 202030 V rated value250 hp• at 20048 V rated value250 hp• at 575/600 V rated value250 hp• at 600 V rated value250 hp• or stor-forcuit protectionNodesign of the fuse link4600 V (600 V, 100 kA)	• at 24 V rated value	10 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       6 A         • at 42 V rated value       6 A         • at 43 V rated value       2 A         • at 40 V rated value       2 A         • at 10 V rated value       2 A         • at 110 V rated value       0.9 A         • at 110 V rated value       0.3 A         • at 220 V rated value       0.1 A         UL/CSA ratings       Tell-load current (FLA) for 3-phase AC motor         • at 800 V rated value       240 A         • at 600 V rated value       240 A         • at 600 V rated value       20 A         • at 600 V rated value       240 A         • at 600 V rated value       240 A         • at 600 V rated value       240 A         • at 200/208 V rated value       240 A         • at 600 V rated value       250 hp         - at 200/208 V rated value       200 hp         - at 200/208 V rated value       200 hp         - at 460/480 V rated value       200 hp         - at 460/480 V rated value       250 hp         contact rating of auxil	• at 48 V rated value	6 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 60 V rated value	6 A
• at 220 V rated value       1 A         • at 600 V rated value       0.15 A         operational current at DC-13       6 A         • at 24 V rated value       6 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 10 V rated value       0.9 A         • at 125 V rated value       0.3 A         • at 200 V rated value       0.1 A         UL/CSA ratings       7         full-load current (FLA) for 3-phase AC motor       242 A         • at 600 V rated value       240 A         • at 220/230 V rated value       240 A         • at 220/230 V rated value       250 hp         - at 220/230 V rated value       200 hp         - at 400/480 V rated value       200 hp         - at 575/600 V rated value       250 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Sh	<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 600 V rated value0.15 Aoperational current at DC-13• at 24 V rated value6 A• at 48 V rated value2 A• at 48 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 600 V rated value240 A• at 600 V rated value240 A• at 600 V rated value200 hp- at 200/208 V rated value200 hp- at 200/208 V rated value200 hp- at 200/208 V rated value200 hp- at 575/600 V rated value200 hp- at 575/600 V rated value200 hp- at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	• at 125 V rated value	2 A
operational current at DC-13       6 A         • at 24 V rated value       6 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 10 V rated value       1 A         • at 220 V rated value       0.9 A         • at 220 V rated value       0.1 A         UL/CSA ratings       0.1 A         full-load current (FLA) for 3-phase AC motor       • at 480 V rated value         • at 600 V rated value       240 A         • at 200/208 V rated value       240 A         • at 200/208 V rated value       250 hp         - at 220/230 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       No         design of the fuse link       e for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)    <	<ul> <li>at 220 V rated value</li> </ul>	1 A
• at 24 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 600 V rated value242 Avielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value242 A• at 600 V rated value240 A• at 200/208 V rated value240 A- at 220/230 V rated value75 hp- at 220/230 V rated value75 hp- at 220/230 V rated value250 hp- at 460/480 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionproduct function short circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	• at 600 V rated value	0.15 A
• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.1 AUL/CSA ratings0.1 Afull-load current (FLA) for 3-phase AC motor240 A• at 800 V rated value240 A• at 600 V rated value242 Ayielded mechanical performance [hp]-• for 3-phase AC motor at 200/208 V rated value75 hp- at 200/208 V rated value200 hp- at 200/208 V rated value200 hp- at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	operational current at DC-13	
• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 480 V rated value242 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value242 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 220/230 V rated value75 hp- at 220/230 V rated value200 hp- at 260/280 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionproduct function short circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	• at 24 V rated value	6 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         UL/CSA ratings         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]       •         • for 3-phase AC motor       -         - at 200/208 V rated value       75 hp         - at 200/208 V rated value       100 hp         - at 220/230 V rated value       200 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       No         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	• at 48 V rated value	2 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         UL/CSA ratings         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]       •         • for 3-phase AC motor       -         - at 200/208 V rated value       75 hp         - at 200/208 V rated value       100 hp         - at 200/208 V rated value       200 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         product function short circuit protection       No         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	• at 60 V rated value	2 A
• at 220 V rated value       0.3 A         • at 600 V rated value       0.1 A         UL/CSA ratings         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]       • for 3-phase AC motor         - at 200/208 V rated value       75 hp         - at 220/230 V rated value       100 hp         - at 220/230 V rated value       200 hp         - at 460/480 V rated value       250 hp         Contact rating of auxiliary contacts according to UL         A600 / Q600       Short-circuit protection         product function short circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 600 V rated value       0.1 A         UL/CSA ratings       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]       -         • for 3-phase AC motor       -         - at 200/208 V rated value       75 hp         - at 220/230 V rated value       100 hp         - at 220/230 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       No         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	• at 125 V rated value	0.9 A
UL/CSA ratings         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]       • for 3-phase AC motor         - at 200/208 V rated value       75 hp         - at 220/230 V rated value       100 hp         - at 220/230 V rated value       200 hp         - at 460/480 V rated value       250 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	<ul> <li>at 220 V rated value</li> </ul>	0.3 A
full-load current (FLA) for 3-phase AC motor       240 A         • at 480 V rated value       242 A         • at 600 V rated value       242 A         yielded mechanical performance [hp]       • 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       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)		0.1 A
• at 480 V rated value240 A• at 600 V rated value242 Ayielded mechanical performance [hp]242 A• for 3-phase AC motor75 hp- at 200/208 V rated value100 hp- at 220/230 V rated value200 hp- at 460/480 V rated value200 hp- at 575/600 V rated value250 hpshort-circuit protectionNodesign of the fuse link• for short-circuit protection of the main circuit- with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	UL/CSA ratings	
• at 600 V rated value242 Ayielded mechanical performance [hp]242 A• for 3-phase AC motor at 200/208 V rated value75 hp- at 220/230 V rated value100 hp- at 460/480 V rated value200 hp- at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionNodesign of the fuse linkSolution of the main circuit- with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]       • 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       No         design of the fuse link       • for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	<ul> <li>at 480 V rated value</li> </ul>	240 A
<ul> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>200 hp</li> <li>at 575/600 V rated value</li> <li>250 hp</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> <li>Short-circuit protection</li> <li>product function short circuit protection</li> <li>No</li> <li>design of the fuse link             <ul></ul></li></ul>	• at 600 V rated value	242 A
at 200/208 V rated value75 hp at 220/230 V rated value100 hp at 460/480 V rated value200 hp at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionproduct function short circuit protectionNodesign of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)	yielded mechanical performance [hp]	
at 220/230 V rated value100 hp at 460/480 V rated value200 hp at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionNoproduct function short circuit protection of the main circuit - with type of coordination 1 requiredNogG: 500 A (690 V, 100 kA)	<ul> <li>for 3-phase AC motor</li> </ul>	
	— at 200/208 V rated value	75 hp
	— at 220/230 V rated value	100 hp
contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       No         product function short circuit protection       No         design of the fuse link       Generation         - with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	— at 460/480 V rated value	200 hp
Short-circuit protection       No         product function short circuit protection       No         design of the fuse link       • for short-circuit protection of the main circuit         — with type of coordination 1 required       gG: 500 A (690 V, 100 kA)	— at 575/600 V rated value	250 hp
product function short circuit protection       No         design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / Q600
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         gG: 500 A (690 V, 100 kA)	Short-circuit protection	
for short-circuit protection of the main circuit	product function short circuit protection	No
- with type of coordination 1 required gG: 500 A (690 V, 100 kA)	design of the fuse link	
	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V,	- with type of coordination 1 required	gG: 500 A (690 V, 100 kA)
(kA)	— with type of assignment 2 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 gG: 10 A (500 V, 1 kA)	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	Installation/ mounting/ dimensions	
mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back	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	side-by-side mounting	Yes
height 210 mm	height	210 mm

depth required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards	202 mm 20 mm 10 mm 10 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
<ul> <li>with side-by-side mounting <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts <ul> <li>forwards</li> <li>for live parts</li> <li>forwards</li> </ul> </li> </ul>	10 mm 10 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>with side-by-side mounting <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul> </li> <li>for live parts <ul> <li>forwards</li> <li>for wards</li> </ul> </li> </ul>	10 mm 10 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for wards</li> </ul>	10 mm 10 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for wards</li> </ul>	10 mm 10 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	20 mm 10 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm 10 mm 20 mm 10 mm			
<ul> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm 20 mm 10 mm			
<ul> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 20 mm 10 mm			
<ul> <li>for live parts</li> <li>forwards</li> </ul>	20 mm 10 mm			
— forwards	10 mm			
	10 mm			
— downwards				
— at the side	10 mm			
	10 mm			
onnections/ Terminals				
type of electrical connection				
• for main current circuit	screw-type terminals			
for auxiliary and control circuit	spring-loaded 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 for main contacts				
solid or stranded	2x (70 240 mm²)			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid	2x (0.25 2.5 mm²)			
— solid or stranded	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)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (24 14)			
AWG number as coded connectable conductor cross section				
<ul> <li>for auxiliary contacts</li> </ul>	24 14			
afety 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			
B10 value with high demand rate according to SN 31920	1 000 000			
T1 value for proof test interval or service life according to IEC 61508	20 a			
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			
communication/ Protocol				
	No			
product function bus communication	No			
ertificates/ approvals				
General Product Approval	<sup>ion</sup> <sup>KC</sup> ГПГ			
	۳. EHC			
EMC Functional Safety/Safety of Ma- Declaration of chinery	of Conformity Test Certificates			



Type Examination Certificate





Type Test Certificates/Test Report Special Test Certificate

other			Railway		
<b>Confirmation</b>	Miscellaneous	Miscellaneous	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> ate	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=3RT1065-2XB46-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2XB46-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2XB46-0LA2

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

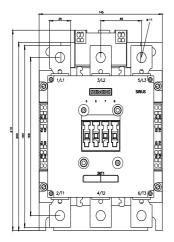
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2XB46-0LA2&lang=en

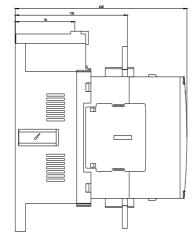
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

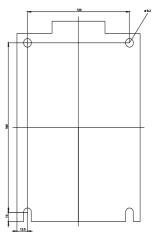
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2XB46-0LA2/char

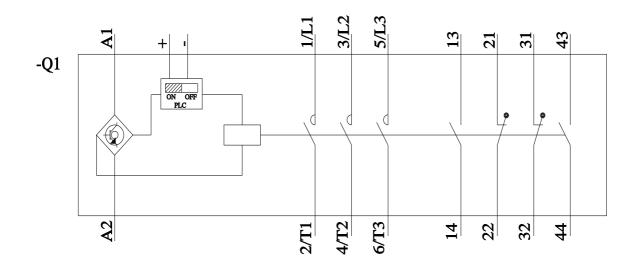
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2XB46-0LA2&objecttype=14&gridview=view1









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