## Data sheet 3RT2035-1CK64-3MA0

0101110



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.2 W
without load current share typical	6.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
SVHC substance name	Blei - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	

f poles for main current circuit	3		
f NO contacts for main contacts	3		
voltage			
.C-3 rated value maximum	690 V		
.C-3e rated value maximum	690 V		
al current			
C-1 at 400 V at ambient temperature 40 °C rated	60 A		
C-1			
– up to 690 V at ambient temperature 40 °C rated alue	60 A		
	55 A		
alue	50 A		
.C-3			
– at 400 V rated value	41 A		
– at 500 V rated value	41 A		
– at 690 V rated value	24 A		
.C-3e			
at 400 V rated value	41 A		
	41 A		
	24 A		
	35 A		
	52.8 A		
	33.2 A		
.C-6a			
	36.5 A		
· ·	36.5 A		
· ·	36.5 A		
· ·	24 A		
C-6a	277		
	24.2 A		
· ·	24.2 A		
· ·	24.2 A		
·	24 A		
	16 mm²		
Joss-Section in main circuit at maximum AC-1 fated	10 111111		
al current for approx. 200000 operating cycles at			
00 V rated value	22 A		
90 V rated value	18.5 A		
al current			
current path at DC-1			
- at 24 V rated value	55 A		
– at 60 V rated value	23 A		
at 110 V rated value	4.5 A		
at 220 V rated value	1 A		
at 440 V rated value	0.4 A		
at 600 V rated value	0.25 A		
n 2 current paths in series at DC-1			
·	55 A		
	45 A		
	45 A		
	5 A		
	1 A		
	0.8 A		
·	55 A		
	40 A		
	2.9 A		
n 2 current paths in series at DC-1  - at 24 V rated value  - at 60 V rated value  - at 110 V rated value  - at 220 V rated value  - at 440 V rated value  - at 600 V rated value  n 3 current paths in series at DC-1  - at 24 V rated value  - at 60 V rated value  - at 110 V rated value  - at 110 V rated value	55 A 45 A 45 A 5 A 1 A		

• at 1 current path at DC-3 at DC-5  — at 24 V rated value 6 A  — at 220 V rated value 1 A  — at 460 V rated value 0.1 A  — at 460 V rated value 0.1 A  — at 460 V rated value 0.0.6 A  • with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value 45 A  — at 60 V rated value 55 A  — at 60 V rated value 25 A  — at 20 V rated value 55 A  — at 20 V rated value 55 A  — at 440 V rated value 0.27 A  — at 4600 V rated value 0.27 A  — at 460 V rated value 0.27 A  — at 4600 V rated value 0.27 A  — at 460 V rated value 0.27 A  — at 600 V rated value 55 A  — at 22 V rated value 55 A  — at 22 V rated value 55 A  — at 60 V rated value 55 A  — at 220 V rated value 55 A  — at 220 V rated value 55 A  — at 220 V rated value 15 A  — at 440 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 18.5 kW  • at AC-3  — at 230 V rated value 18.5 kW  • at AC-3e  — at 490 V rated value 22 kW  • at AC-3e  — at 230 V rated value 11 kW  • at AC-3e  — at 230 V rated value 11 kW  • at AC-3e  — at 230 V rated value 18.5 kW  • at AC-3e  — at 230 V rated value 18.5 kW  • at AC-3e  — at 230 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW  • at AC-3e  — at 250 V rated value 18.5 kW		
at 60 V rated value		
at 220 V rated value		
at 440 V rated value		
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 110 V rated value</li> <li>— 55 A</li> <li>— at 1220 V rated value</li> <li>— 54 A</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>— at 60 V rated value</li> <li>— 55 A</li> <li>— at 110 V rated value</li> <li>— 55 A</li> <li>— at 110 V rated value</li> <li>— 55 A</li> <li>— at 220 V rated value</li> <li>— 55 A</li> <li>— at 220 V rated value</li> <li>— 36 A</li> <li>— at 400 V rated value</li> <li>— 0.6 A</li> <li>— 35 A</li> <li>Operating power</li> <li>at AC-2 at 400 V rated value</li> <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 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 600 V rated value</li> <li< td=""><td></td></li<></ul>		
• with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value		
- at 24 V rated value		
- at 110 V rated value		
at 220 V rated value		
- at 440 V rated value 0.27 A - at 600 V rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 55 A - at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 440 V rated value 0.35 A  operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW - at 690 V rated value 11 kW - at 400 V rated value 22 kW • at AC-3e - at 230 V rated value 22 kW - at 690 V rated value 18.5 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW		
- at 600 V rated value  • with 3 current paths in series at DC-3 at DC-5  - at 24 V rated value 55 A  - at 60 V rated value 55 A  - at 110 V rated value 55 A  - at 220 V rated value 25 A  - at 440 V rated value 0.6 A  - at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 18.5 kW  • at AC-3  - at 230 V rated value 11 kW  - at 400 V rated value 18.5 kW  • at AC-3  - at 230 V rated value 22 kW  - at 690 V rated value 22 kW  • at AC-3e  - at 230 V rated value 11 kW  - at 400 V rated value 22 kW  - at 690 V rated value 11 kW  - at 400 V rated value 22 kW  • at AC-3e  - at 230 V rated value 22 kW  • at AC-3e  - at 230 V rated value 22 kW  • at AC-3e  - at 230 V rated value 22 kW  • at AC-3e  - at 250 V rated value 22 kW  - at 690 V rated value 22 kW		
• with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 220 V rated value 25 A — at 440 V rated value 0.6 A — at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 18.5 kW • at AC-3 — at 230 V rated value 11 kW — at 400 V rated value 22 kW — at 690 V rated value 22 kW • at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 22 kW • at AC-3e — at 230 V rated value 22 kW • at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 22 kW • at AC-3e — at 250 V rated value 22 kW • at AC-3e — at 250 V rated value 11 kW — at 400 V rated value 22 kW — at 690 V rated value 22 kW — at 690 V rated value 22 kW — at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
at 24 V rated value 55 A at 60 V rated value 55 A at 110 V rated value 55 A at 220 V rated value 25 A at 440 V rated value 0.6 A at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 18.5 kW • at AC-3 at 230 V rated value 11 kW at 400 V rated value 18.5 kW at 500 V rated value 22 kW • at AC-3e at 230 V rated value 22 kW • at AC-3e at 230 V rated value 22 kW • at AC-3e at 200 V rated value 22 kW • at AC-3e at 200 V rated value 22 kW at 690 V rated value 18.5 kW at 400 V rated value 22 kW at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-		
- at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 18.5 kW • at AC-3  - at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW • at 690 V rated value 18.5 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-		
at 110 V rated value 55 A at 220 V rated value 25 A at 440 V rated value 0.6 A at 600 V rated value 0.35 A  operating power  ■ at AC-2 at 400 V rated value 18.5 kW  ■ at AC-3 at 230 V rated value 11 kW at 400 V rated value 18.5 kW at 500 V rated value 22 kW at 690 V rated value 22 kW  ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 22 kW  ■ at AC-3e at 230 V rated value 18.5 kW at 690 V rated value 22 kW		
at 220 V rated value 25 A at 440 V rated value 0.6 A at 600 V rated value 0.35 A  operating power  ■ at AC-2 at 400 V rated value 18.5 kW ■ at AC-3 at 230 V rated value 11 kW at 400 V rated value 18.5 kW at 500 V rated value 22 kW at 690 V rated value 22 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW ■ at AC-3e at 230 V rated value 22 kW ■ at AC-3e at 250 V rated value 18.5 kW at 690 V rated value 22 kW		
at 440 V rated value 0.6 A at 600 V rated value 0.35 A  operating power  ■ at AC-2 at 400 V rated value 18.5 kW  ■ at AC-3  at 230 V rated value 11 kW  at 400 V rated value 22 kW  at 690 V rated value 22 kW  ■ at AC-3e  at 230 V rated value 11 kW  at 400 V rated value 22 kW  ■ at AC-3e  at 230 V rated value 11 kW  at 400 V rated value 22 kW  ■ at 500 V rated value 11 kW  at 400 V rated value 18.5 kW  at 690 V rated value 22 kW		
— at 600 V rated value       0.35 A         operating power       18.5 kW         • at AC-2 at 400 V rated value       18.5 kW         • at 230 V rated value       11 kW         — at 400 V rated value       22 kW         — at 690 V rated value       22 kW         • at AC-3e       11 kW         — at 230 V rated value       11 kW         — at 400 V rated value       18.5 kW         — at 500 V rated value       22 kW         • at 690 V rated value       22 kW         • at 690 V rated value       22 kW         • at 690 V rated value       22 kW		
operating power		
<ul> <li>at AC-2 at 400 V rated value</li> <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 AC-3e</li> <li>— at 230 V rated value</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul>		
■ at AC-3     — at 230 V rated value     — at 400 V rated value     — at 500 V rated value     — at 690 V rated value     — at 690 V rated value     ■ at AC-3e     — at 230 V rated value     — at 400 V rated value     — at 500 V rated value     — at 500 V rated value     — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-		
<ul> <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 AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul>		
— at 400 V rated value — at 500 V rated value 22 kW — at 690 V rated value 22 kW  • at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
— at 500 V rated value 22 kW — at 690 V rated value 22 kW  ■ at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 22 kW — at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
<ul> <li>— at 690 V rated value</li> <li>● at AC-3e</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>		
● at AC-3e  — at 230 V rated value 11 kW  — at 400 V rated value 18.5 kW  — at 500 V rated value 22 kW  — at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
- at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
- at 400 V rated value - at 500 V rated value 22 kW - at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
- at 500 V rated value 22 kW - at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
— at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-		
operating power for approx. 200000 operating cycles at AC-		
4		
• at 400 V rated value 11.6 kW		
• at 690 V rated value 16.8 kW		
operating apparent power at AC-6a		
• up to 230 V for current peak value n=20 rated value 14.5 kVA		
• up to 400 V for current peak value n=20 rated value 25.2 kVA		
• up to 500 V for current peak value n=20 rated value 31.6 kVA		
• up to 690 V for current peak value n=20 rated value 28.6 kVA		
operating apparent power at AC-6a		
• up to 230 V for current peak value n=30 rated value 9.6 kVA		
• up to 400 V for current peak value n=30 rated value 16.8 kVA		
• up to 500 V for current peak value n=30 rated value 21 kVA		
• up to 690 V for current peak value n=30 rated value 28.6 kVA		
short-time withstand current in cold operating state up to		
40 °C		
• limited to 1 s switching at zero current maximum  843 A; Use minimum cross-section acc. to AC-1 rated value		
• limited to 5 s switching at zero current maximum 596 A; Use minimum cross-section acc. to AC-1 rated value	596 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 10 s switching at zero current maximum 400 A; Use minimum cross-section acc. to AC-1 rated value	400 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 30 s switching at zero current maximum  241 A; Use minimum cross-section acc. to AC-1 rated value	241 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum  196 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency		
• at AC 5 000 1/h		
operating frequency		
• at AC-1 maximum 1 200 1/h		
• at AC-2 maximum 750 1/h		
• at AC-3 maximum 1 000 1/h		
• at AC-3e maximum 1 000 1/h		
• at AC-4 maximum 300 1/h		

Control circuit/ Control		
type of voltage of the control supply voltage	AC	
control supply voltage at AC		
at 50 Hz rated value	110 V	
at 60 Hz rated value	120 V	
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	212 VA	
● at 60 Hz	188 VA	
inductive power factor with closing power of the coil		
● at 50 Hz	0.69	
• at 60 Hz	0.65	
apparent holding power of magnet coil at AC		
● at 50 Hz	18.5 VA	
• at 60 Hz	16.5 VA	
inductive power factor with the holding power of the coil		
• at 50 Hz	0.36	
• at 60 Hz	0.39	
closing delay		
• at AC	10 80 ms	
opening delay		
• at AC	10 18 ms	
arcing time	10 20 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	
at 400 V rated value	3 A	
	0.4	
• at 500 V rated value	2 A	
<ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	2 A 1 A	
at 690 V rated value		
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	1 A	
at 690 V rated value  operational current at DC-12      at 24 V rated value     at 48 V rated value     at 60 V rated value	1 A 10 A 6 A 6 A	
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	1 A 10 A 6 A	
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	1 A 10 A 6 A 6 A	
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A	
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  6 A 2 A 2 A 1 A 0.9 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  6 A 2 A 2 A 1 A 0.9 A 0.3 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  6 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 120 V rated value  at 120 V rated value  at 600 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  6 A 2 A 2 A 1 A 0.9 A 0.3 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 600 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  6 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 60 V rated value  at 125 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  JL/CSA ratings  full-load current (FLA) for 3-phase AC motor	1 A  10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value	1 A  10 A 6 A 6 A 8 A 2 A 1 A 0.15 A  6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)	
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  JL/CSA ratings  full-load current (FLA) for 3-phase AC motor	1 A  10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)	

<ul> <li>for single-phase AC motor</li> </ul>			
— at 110/120 V rated value	3 hp		
— at 230 V rated value	7.5 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	10 hp		
— at 220/230 V rated value	15 hp		
— at 460/480 V rated value	30 hp		
— at 575/600 V rated value	40 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	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80		
— with type of coordination in required	kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)		
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
	backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	114 mm		
width	55 mm		
depth	174 mm		
required spacing			
with side-by-side mounting			
— forwards	10 mm		
— upwards			
— downwards	10 mm		
	10 mm		
— at the side	0 mm		
• for grounded parts	40		
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
at contactor for auxiliary contacts	Screw-type terminals		
• of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections for main contacts	·		
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)		
finely stranded with core end processing	2x (1 35 mm²), 1x (1 35 mm²)		
connectable conductor cross-section for main contacts	, , , , , , , , , , , , , , , , , , , ,		
finely stranded with core end processing	1 35 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
	0.5 2.5 mm² 0.5 2.5 mm²		
finely stranded with core end processing  type of connectable conductor gross sections	0.0 2.0 IIIII		
type of connectable conductor cross-sections			
for auxiliary contacts	0 (05 45 3) 0 (075 05 3)		
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			

<ul> <li>for main contacts</li> </ul>	18 1
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
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	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	

Certificates/ approvals

#### **General Product Approval**





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

#### Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation

Vibration and Shock

**Transport Information** 

### Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1CK64-3MA0}\\$ 

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1CK64-3MA0

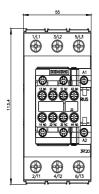
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

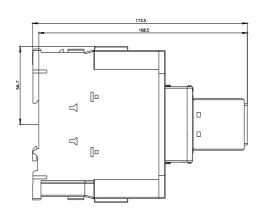
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1CK64-3MA0

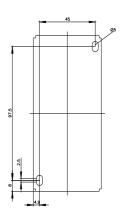
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

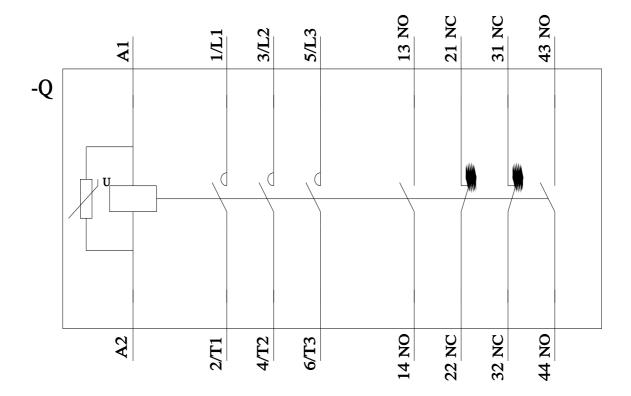
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-1CK64-3MA0\&lang=en}}$ 

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1CK64-3MA0&objecttype=14&gridview=view1









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