# Data sheet

CONTACTOR,AC3:30KW/400V, 2NO+2NC, 230V AC 50/60HZ, WITH PLUGGED-IN VARISTOR, 3-POLE, SIZE S2, SCREW TERMINAL, AUXILIARY CONTACT INSEPARABLE



Figure similar

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:	
Size of contactor	S2
Product expansion	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	No
Insulation voltage	
Rated value	690 V
Surge voltage resistance Rated value	6 kV
maximum permissible voltage for safe isolation	400 V
between coil and main contacts acc. to EN 60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP00
Degree of pollution	3
Shock resistance	
at rectangular impulse	
— at AC	9.8g / 5 ms, 6.5g / 10 ms

• with sine pulse	
— at AC	15.3g / 5 ms, 10.1g / 10 ms
Mechanical service life (switching cycles)	
• of the contactor typical	10 000 000
• of the contactor with added electronics-	5 000 000
compatible auxiliary switch block typical	
<ul> <li>of the contactor with added auxiliary switch</li> </ul>	10 000 000
block typical	
Ambient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit:	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating voltage	
• at AC-3 Rated value maximum	690 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	80 A
● at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	80 A
— at ambient temperature 60 °C Rated value	70 A
• at AC-2 at 400 V Rated value	65 A
• at AC-3	
— at 400 V Rated value	65 A
— at 500 V Rated value	65 A
— at 690 V Rated value	47 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	25 mm²
• at 40 °C minimum permissible	25 mm²
Operating current	
• at 1 current path at DC-1	
— at 24 V Rated value	55 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
• with 2 current paths in series at DC-1	

at 24 V Rated value		
— at 220 V Rated value 1 A   — at 440 V Rated value 0.8 A    • with 3 current paths in series at DC-1   — at 24 V Rated value 55 A   — at 110 V Rated value 55 A   — at 220 V Rated value 45 A   — at 240 V Rated value 2.9 A   — at 600 V Rated value 2.9 A   — at 600 V Rated value 1.4 A    Operating current    • at 1 current path at DC-3 at DC-5   — at 24 V Rated value 2.5 A   — at 220 V Rated value 35 A   — at 110 V Rated value 1 A   — at 440 V Rated value 2.5 A   — at 220 V Rated value 1 A   — at 440 V Rated value 1 A   — at 440 V Rated value 0.1 A   — at 440 V Rated value 0.1 A   — at 440 V Rated value 0.06 A    • with 2 current paths in series at DC-3 at DC-5   — at 220 V Rated value 5 A   — at 220 V Rated value 5 A   — at 220 V Rated value 5 A   — 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 110 V Rated value 0.16 A   • with 3 current paths in series at DC-3 at DC-5   — at 110 V Rated value 0.16 A   • with 3 current paths in series at DC-3 at DC-5   — at 24 V Rated value 0.16 A   • with 3 current paths in series at DC-3 at DC-5   — at 20 V Rated value 0.16 A   • at 440 V Rated value 55 A   — at 220 V Rated value 55 A   — at 24 V Rated value 55 A   — at 24 V Rated value 25 A   — at 24 V Rated value 55 A   — at 440 V Rated value 55 A   — at 440 V Rated value 55 A   — at 400 V Rated value 9   • at AC-1   — at 230 V Rated value 9   • at AC-1   — at 450 V Rated value 9   • at AC-2   — at 450 V Rated value 9   • at AC-2   — at 450 V Rated value 9   • at AC-2   — at 450 V Rated value 9   • at AC-3    • at AC-3	— at 24 V Rated value	55 A
	— at 110 V Rated value	45 A
→ at 600 V Rated value     ◆ with 3 current paths in series at DC-1     — at 24 V Rated value     — at 110 V Rated value     — at 220 V Rated value     — at 600 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 220 V Rated value     — at 24 V Rated value     — at 240 V Rated value     — at 440 V Rated value     — at 440 V Rated value     — at 600 V Rated value     — at 600 V Rated value     — at 600 V Rated value     • with 2 current paths in series at DC-3 at DC-5     — at 110 V Rated value     — at 220 V Rated value     — at 220 V Rated value     — at 220 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 600 V Rated value     — at 600 V Rated value     — at 440 V Rated value     — at 440 V Rated value     — at 600 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 25 A     — at 24 V Rated value     — at 25 A     — at 24 V Rated value     — at 25 A     — at 24 V Rated value     — at 25 A     — at 27 V Rated value     — at 28 V Rated value     — at 29 V Rated value     — at 29 V Rated value     — at 20 V Rated value     — at 600 V Ra	— at 220 V Rated value	5 A
• with 3 current paths in series at DC-1     — at 24 V Rated value	— at 440 V Rated value	1 A
- at 24 V Rated value 55 A - at 110 V Rated value 45 A - at 220 V Rated value 45 A - at 440 V Rated value 2.9 A - at 600 V Rated value 1.4 A  Operating current  • at 1 current path at DC-3 at DC-5 - at 24 V Rated value 2.5 A - at 120 V Rated value 1 A - at 440 V Rated value 2.5 A - at 220 V Rated value 1 A - at 440 V Rated value 0.1 A - at 600 V Rated value 0.08 A  • with 2 current paths in series at DC-3 at DC-5 - at 110 V Rated value 55 A - at 120 V Rated value 55 A - at 220 V Rated value 55 A - at 24 V Rated value 55 A - at 440 V Rated value 55 A - at 120 V Rated value 55 A - at 220 V Rated value 55 A - at 220 V Rated value 25 A - at 220 V Rated value 25 A - at 220 V Rated value 35 A  Operating power  • at AC-1 - at 230 V Rated value 30 kW - at 230 V Rated value 53 kW - at 400 V Rated value 91 kW - at 690 V Rated value 91 kW	— at 600 V Rated value	0.8 A
- at 110 V Rated value	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
	— at 24 V Rated value	55 A
- at 440 V Rated value 2.9 A - at 600 V Rated value 1.4 A  Coperating current	— at 110 V Rated value	55 A
Operating current	— at 220 V Rated value	45 A
Operating current         • at 1 current path at DC-3 at DC-5         — at 24 V Rated value       35 A         — at 110 V Rated value       1 A         — at 420 V Rated value       0.1 A         — at 440 V Rated value       0.06 A         • with 2 current paths in series at DC-3 at DC-5         — at 110 V Rated value       25 A         — at 220 V Rated value       5 A         — at 24 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       55 A         — at 110 V Rated value       55 A         — at 220 V Rated value       55 A         — at 220 V Rated value       55 A         — at 24 V Rated value       55 A         — at 440 V Rated value       0.6 A         — at 440 V Rated value       0.35 A         Operating power         • at AC-1       30 kW         — at 400 V Rated value       26 kW         — at 400 V Rated value       46 kW         — at 690 V Rated value       79 kW         • at AC-2 at 400 V Rated value       30 kW	— at 440 V Rated value	2.9 A
• at 1 current path at DC-3 at DC-5  — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 600 V Rated value — at 600 V Rated value — at 600 V Rated value — at 220 V Rated value — at 24 V Rated value — at 24 V Rated value — at 600 V Rated value — at 220 V Rated value — 55 A — at 220 V Rated value — 55 A — at 220 V Rated value — 55 A — at 24 V Rated value — 55 A — at 24 V Rated value — 30 A — at 600 V Rated value — 30 A  Operating power  • at AC-1 — at 230 V Rated value — at 400 V Rated value — at 690 V Rated value — at AC-2 at 400 V Rated value • at AC-3	— at 600 V Rated value	1.4 A
at 24 V Rated value 2.5 A at 110 V Rated value 1 A at 220 V Rated value 1 A at 440 V Rated value 0.1 A at 600 V Rated value 0.06 A  • with 2 current paths in series at DC-3 at DC-5 at 110 V Rated value 55 A at 220 V Rated value 55 A at 24 V Rated value 55 A at 440 V Rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5 at 110 V Rated value 55 A at 24 V Rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5 at 110 V Rated value 55 A at 220 V Rated value 55 A at 220 V Rated value 55 A at 220 V Rated value 55 A at 24 V Rated value 55 A at 440 V Rated value 55 A at 440 V Rated value 55 A at 400 V Rated value 55 A at 600 V Rated value 55 A at 600 V Rated value 64 6 W at 600 V Rated value 75 kW at 400 V Rated value 75 kW at 400 V Rated value 91 kW at 690 V Rated value 91 kW at 690 V Rated value 79 kW  • at AC-2 at 400 V Rated value 30 kW • at AC-3	Operating current	
at 110 V Rated value 2.5 A at 220 V Rated value 1 A at 440 V Rated value 0.0.6 A  • with 2 current paths in series at DC-3 at DC-5 at 110 V Rated value 5 A at 220 V Rated value 5.5 A at 24 V Rated value 5.5 A at 440 V Rated value 5.5 A 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 110 V Rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5 at 110 V Rated value 5.5 A at 220 V Rated value 5.5 A at 220 V Rated value 5.5 A at 24 V Rated value 5.5 A at 24 V Rated value 5.5 A at 24 V Rated value 5.5 A at 440 V Rated value 5.5 A at 440 V Rated value 5.5 A at 440 V Rated value 5.5 A at 400 V Rated value 5.5 A at 600 V Rated value 5.5 A at 600 V Rated value 5.5 A at 600 V Rated value 6.3 S A  Operating power  • at AC-1 at 230 V Rated value 6.6 kW at 400 V Rated value 7.5 kW at 400 V Rated value 9.1 kW at 690 V Rated value 9.1 kW at 690 V Rated value 7.9 kW  • at AC-2 at 400 V Rated value 30 kW  • at AC-3	• at 1 current path at DC-3 at DC-5	
	— at 24 V Rated value	35 A
— at 440 V Rated value 0.1 A — at 600 V Rated value 0.06 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 25 A — at 220 V Rated value 55 A — at 24 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 110 V Rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5 — at 110 V Rated value 55 A — at 220 V Rated value 25 A — at 220 V Rated value 55 A — at 220 V Rated value 55 A — at 440 V Rated value 55 A — at 440 V Rated value 0.6 A — at 600 V Rated value 0.35 A  Operating power  • at AC-1 — at 230 V Rated value 30 kW — at 230 V Rated value 53 kW — at 400 V Rated value 46 kW — at 690 V Rated value 91 kW — at 690 V Rated value 91 kW — at 690 V Rated value 79 kW  • at AC-2 at 400 V Rated value 30 kW • at AC-3	— at 110 V Rated value	2.5 A
<ul> <li>at 600 V Rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— 5 A</li> <li>— at 24 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> <li>— with 3 current paths in series at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— with 3 current paths in series at DC-3 at DC-5</li> <li>— at 120 V Rated value</li> <li>— at 220 V Rated value</li> <li>— 55 A</li> <li>— at 24 V Rated value</li> <li>— 55 A</li> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> <li>— at 600 V Rated value</li> <li>— at 600 V Rated value</li> <li>— at 230 V Rated value</li> <li>— at 230 V Rated value</li> <li>— at 400 V Rated value</li> <li>— at 690 V Rated value</li> &lt;</ul>	— at 220 V Rated value	1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5         <ul> <li>at 110 V Rated value</li> <li>at 220 V Rated value</li> <li>at 220 V Rated value</li> <li>at 24 V Rated value</li> <li>at 440 V Rated value</li> <li>at 600 V Rated value</li> <li>o.27 A</li> <li>at 600 V Rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 110 V Rated value</li> <li>at 220 V Rated value</li> <li>at 220 V Rated value</li> <li>at 24 V Rated value</li> <li>at 440 V Rated value</li> </ul> </li> <li>Operating power         <ul> <li>at 600 V Rated value</li> <li>at 30 kW</li> <li>at 230 V Rated value</li> <li>at 230 V Rated value</li> <li>at 4400 V Rated value</li> <li>at 400 V Rated value</li> <li>at 690 V Rated value</li> <li>at 600 V Rated value</li> <li>at 600 V Rated value</li> <li>at 600 V Rated value</li> </ul> </li> <li>at AC-2 at 400 V Rated value</li> <li>at AC-3</li> </ul>	— at 440 V Rated value	0.1 A
- at 110 V Rated value 25 A - at 220 V Rated value 5 A - at 24 V Rated value 55 A - 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 110 V Rated value 25 A - at 220 V Rated value 55 A - at 24 V Rated value 55 A - at 440 V Rated value 0.6 A - at 600 V Rated value 0.35 A  Operating power  • at AC-1 - at 230 V Rated value 30 kW - at 230 V Rated value 53 kW - at 400 V Rated value 55 kW - at 400 V Rated value 91 kW - at 690 V Rated value 79 kW • at AC-2 at 400 V Rated value 30 kW  • at AC-3	— at 600 V Rated value	0.06 A
at 220 V Rated value 55 A at 24 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 110 V Rated value 55 A at 220 V Rated value 55 A at 220 V Rated value 55 A at 24 V Rated value 55 A at 440 V Rated value 0.6 A at 600 V Rated value 0.35 A  Operating power  • at AC-1 at 230 V Rated value 30 kW at 230 V Rated value 53 kW at 400 V Rated value 46 kW at 690 V Rated value 91 kW at 690 V Rated value 79 kW • at AC-2 at 400 V Rated value 30 kW • at AC-3	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
at 24 V Rated value	— at 110 V Rated value	25 A
— at 440 V Rated value — at 600 V Rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5 — at 110 V Rated value 55 A — at 220 V Rated value 25 A — at 24 V Rated value 55 A — at 440 V Rated value 0.6 A — at 600 V Rated value 0.35 A  Operating power  • at AC-1 — at 230 V Rated value 30 kW — at 230 V Rated value 30 kW — at 400 V Rated value 53 kW — at 400 V Rated value 91 kW — at 690 V Rated value 91 kW — at 690 V Rated value 91 kW • at AC-2 at 400 V Rated value 30 kW • at AC-3	— at 220 V Rated value	5 A
<ul> <li>— at 600 V Rated value</li> <li>● with 3 current paths in series at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 24 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> <li>— at 600 V Rated value</li> <li>— at AC-1</li> <li>— at 230 V Rated value</li> <li>— at 230 V Rated value</li> <li>— at 400 V Rated value</li> <li>— at 400 V Rated value</li> <li>— at 690 V Rated value</li> <li>— at</li></ul>	— at 24 V Rated value	55 A
with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value	— at 440 V Rated value	0.27 A
- at 110 V Rated value 55 A  - at 220 V Rated value 25 A  - at 24 V Rated value 55 A  - at 440 V Rated value 0.6 A  - at 600 V Rated value 0.35 A  Operating power  ■ at AC-1  - at 230 V Rated value 30 kW  - at 230 V Rated value 26 kW  - at 400 V Rated value 53 kW  - at 400 V Rated value 46 kW  - at 690 V Rated value 91 kW  - at 690 V at 60 °C Rated value 79 kW  ■ at AC-2 at 400 V Rated value 30 kW  ■ at AC-3	— at 600 V Rated value	0.16 A
- at 220 V Rated value 25 A - at 24 V Rated value 55 A - at 440 V Rated value 0.6 A - at 600 V Rated value 0.35 A  Operating power  ■ at AC-1 - at 230 V Rated value 30 kW - at 230 V at 60 °C Rated value 26 kW - at 400 V Rated value 53 kW - at 400 V at 60 °C Rated value 46 kW - at 690 V Rated value 91 kW - at 690 V Rated value 91 kW - at 690 V at 60 °C Rated value 79 kW  ■ at AC-2 at 400 V Rated value 30 kW  ■ at AC-3	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
- at 24 V Rated value - at 440 V Rated value 0.6 A 0.35 A  Operating power  ■ at AC-1  - at 230 V Rated value 30 kW  - at 230 V at 60 °C Rated value 26 kW  - at 400 V Rated value 33 kW  - at 400 V Rated value 91 kW  - at 690 V Rated value 91 kW  ■ at AC-2 at 400 V Rated value 30 kW  ■ at AC-3	— at 110 V Rated value	55 A
- at 440 V Rated value 0.6 A - at 600 V Rated value 0.35 A  Operating power  ■ at AC-1  — at 230 V Rated value 30 kW — at 230 V at 60 °C Rated value 26 kW — at 400 V Rated value 53 kW — at 400 V at 60 °C Rated value 46 kW — at 690 V Rated value 91 kW — at 690 V at 60 °C Rated value 79 kW  ■ at AC-2 at 400 V Rated value 30 kW  ■ at AC-3	— at 220 V Rated value	25 A
— at 600 V Rated value 0.35 A  Operating power  ■ at AC-1  — at 230 V Rated value 30 kW  — at 230 V at 60 °C Rated value 26 kW  — at 400 V Rated value 53 kW  — at 400 V at 60 °C Rated value 46 kW  — at 690 V Rated value 91 kW  — at 690 V at 60 °C Rated value 79 kW  ■ at AC-2 at 400 V Rated value 30 kW	— at 24 V Rated value	55 A
Operating power         • at AC-1         — at 230 V Rated value       30 kW         — at 230 V at 60 °C Rated value       26 kW         — at 400 V Rated value       53 kW         — at 400 V at 60 °C Rated value       46 kW         — at 690 V Rated value       91 kW         — at 690 V at 60 °C Rated value       79 kW         • at AC-2 at 400 V Rated value       30 kW	— at 440 V Rated value	0.6 A
<ul> <li>at AC-1         <ul> <li>at 230 V Rated value</li> <li>at 230 V at 60 °C Rated value</li> <li>at 400 V Rated value</li> <li>at 400 V at 60 °C Rated value</li> <li>at 690 V Rated value</li> <li>at 690 V at 60 °C Rated value</li> <li>at AC-2 at 400 V Rated value</li> </ul> </li> <li>at AC-3</li> </ul>	— at 600 V Rated value	0.35 A
- at 230 V Rated value  - at 230 V at 60 °C Rated value  - at 400 V Rated value  - at 400 V at 60 °C Rated value  - at 690 V Rated value  - at 690 V at 60 °C Rated value  - at 690 V at 60 °C Rated value  - at 690 V at 60 °C Rated value  - at AC-2 at 400 V Rated value  • at AC-3		
- at 230 V at 60 °C Rated value 26 kW  - at 400 V Rated value 53 kW  - at 400 V at 60 °C Rated value 46 kW  - at 690 V Rated value 91 kW  - at 690 V at 60 °C Rated value 79 kW  • at AC-2 at 400 V Rated value 30 kW  • at AC-3	• at AC-1	
- at 400 V Rated value 53 kW  - at 400 V at 60 °C Rated value 46 kW  - at 690 V Rated value 91 kW  - at 690 V at 60 °C Rated value 79 kW  • at AC-2 at 400 V Rated value 30 kW  • at AC-3		
- at 400 V at 60 °C Rated value 46 kW  - at 690 V Rated value 91 kW  - at 690 V at 60 °C Rated value 79 kW  • at AC-2 at 400 V Rated value 30 kW  • at AC-3		
<ul> <li>— at 690 V Rated value</li> <li>— at 690 V at 60 °C Rated value</li> <li>• at AC-2 at 400 V Rated value</li> <li>• at AC-3</li> <li>91 kW</li> <li>79 kW</li> <li>30 kW</li> </ul>		
<ul> <li>— at 690 V at 60 °C Rated value</li> <li>• at AC-2 at 400 V Rated value</li> <li>• at AC-3</li> <li>79 kW</li> <li>30 kW</li> </ul>		
<ul> <li>at AC-2 at 400 V Rated value</li> <li>at AC-3</li> </ul>		
• at AC-3		
		30 kW
— at 230 V Rated value 18.5 kW		
	— at 230 V Rated value	18.5 kW

— at 400 V Rated value	30 kW
— at 500 V Rated value	37 kW
— at 690 V Rated value	37 kW
Thermal short-time current limited to 10 s	520 A
Active power loss at AC-3 at 400 V for rated value of	3.8 W
the operating current per conductor	
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
● at AC-1 maximum	800 1/h
● at AC-2 maximum	400 1/h
at AC-3 maximum	700 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz Rated value	230 V
• at 60 Hz Rated value	230 V
Operating range factor control supply voltage rated	
value of the magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of the magnet coil at AC	
● at 50 Hz	210 V·A
● at 60 Hz	188 V·A
Apparent holding power of the magnet coil at AC	
● at 50 Hz	17.2 V·A
● at 60 Hz	16.5 V·A
Closing delay	
• at AC	10 80 ms
Opening delay	
• at AC	10 18 ms
Arcing time	10 20 ms
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	2

Number of NO contacts

• for auxiliary contacts

— instantaneous contact

Operating current at AC-12 maximum

2

10 A

Operating 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
Operating current at DC-12	
● at 24 V Rated value	10 A
• at 48 V Rated value	6 A
• at 60 V Rated value	6 A
• at 110 V Rated value	3 A
● at 125 V Rated value	2 A
• at 220 V Rated value	1 A
• at 600 V Rated value	0.15 A
Operating current at DC-13	
● at 24 V Rated value	6 A
● at 48 V Rated value	2 A
● at 60 V Rated value	2 A
● at 110 V Rated value	1 A
• at 125 V Rated value	0.9 A
• at 220 V Rated value	0.3 A
● at 600 V Rated value	0.1 A
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	65 A
● at 600 V Rated value	52 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V Rated value	5 hp
— at 230 V Rated value	10 hp
• for three-phase AC motor	
— at 200/208 V Rated value	20 hp
— at 220/230 V Rated value	20 hp
— at 460/480 V Rated value	50 hp
— at 575/600 V Rated value	50 hp
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
• for short-circuit protection of the main circuit	
<ul> <li>— with type of assignment 1 required</li> </ul>	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A

— with type of assignment 2 required

gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 10 A

nstallation/ mounting/ dimensions:	
mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	114 mm
Width	55 mm
Depth	174 mm
Required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	6 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	6 mm
Connections/ Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-section	
• for main contacts	
<ul><li>— single or multi-stranded</li></ul>	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
• for AWG conductors for main contacts	2x (18 2), 1x (18 1)
Type of connectable conductor cross-section	
<ul> <li>for auxiliary contacts</li> </ul>	

- single or multi-stranded

- finely stranded with core end processing

• for AWG conductors for auxiliary contacts

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

## Safety related data:

### Proportion of dangerous failures

• with low demand rate acc. to SN 31920

40 % 73 %

• with high demand rate acc. to SN 31920

#### Product function

• Mirror contact acc. to IEC 60947-4-1

Yes

• positively driven operation acc. to IEC 60947-5-

No

1

#### Certificates/ approvals:

### **General Product Approval**

Declaration of Conformity

other











Umweltbestätigung

#### other

Bestätigungen

# Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

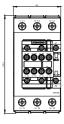
#### Cax online generator

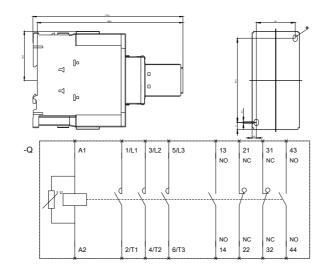
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20371CL243MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT20371CL243MA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20371CL243MA0&lang=en





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