# **SIEMENS**

Data sheet 3RT1076-6AD36



CONTACTOR, 250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 42-48V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:	
Size of contactor	S12
Insulation voltage	
Rated value	1 000 V
Surge voltage resistance Rated value	8 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Degree of pollution	3
Mechanical service life (switching cycles)	
• of the contactor typical	10 000 000
<ul> <li>of the contactor with added electronics- compatible 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

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

Operating current         • at AC-1 at 400 V         610 A           • at AC-1 up to 690 V         610 A           • at AC-1 up to 690 V         610 A           • at ambient temperature 40 °C Rated value         610 A           • at AC-3         - at ambient temperature 60 °C Rated value         550 A           • at AC-3         - at 400 V Rated value         450 A           Connectable conductor cross-section in main circuit at AC-1         • at 60 °C minimum permissible         370 mm²           • at 60 °C minimum permissible         370 mm²           • at 400 V Rated value         175 A           • at 690 V Rated value         175 A           • at 690 V Rated value         400 A           • at 110 V Rated value         400 A           • at 110 V Rated value         400 A           • with 2 current paths in series at DC-1         400 A           • at 110 V Rated value         400 A           • with 2 current paths in series at DC-5         400 A           • at 110 V Rated value         400 A           • with 2 current paths in series at DC-3 at	Number of NC contacts for main contacts	0
at AC-1 at 400 V     — at ambient temperature 40 °C Rated value     at AC-1 up to 690 V     — at ambient temperature 40 °C Rated value     — at ambient temperature 60 °C Rated value     — at ambient temperature 60 °C Rated value     — at 400 V Rated value     — at 690 V Rated value     — at 690 V Rated value     — at 60 °C minimum permissible     — at 40 °C minimum permissible     — at 40 °C minimum permissible     — at 690 V Rated value     — at 690 V Rated value     Operating current for ≥ 200000 operating cycles at AC-4     • at 690 V Rated value     — at 110 V Rated value     — at 124 V Rated value     — at 110 V Rated value     — at 24 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     — a		
* at AC-1 up to 690 V     — at ambient temperature 40 °C Rated value     — at ambient temperature 60 °C Rated value     * at AC-3     — at 400 V Rated value     — at 409 V Rated value     — at 690 °C minimum permissible     • at 60 °C minimum permissible     • at 60 °C minimum permissible     • at 400 V Rated value     • at 900 V Rated value     • at 900 V Rated value     • at 900 V Rated value     • at 100 V Rated value     • at 100 V Rated value     — at 110 V Rated value     — at 110 V Rated value     • with 1 current paths in series at DC-1     — at 24 V Rated value     — at 110 V Rated value     • with 3 current paths in series at DC-1     — at 24 V Rated value     • with 3 current paths in series at DC-1     — at 24 V Rated value     • with 1 V Rated value     • with 1 V Rated value     • at 110 V Rated value     • at 110 V Rated value     • with 1 Current paths in series at DC-3 at DC-5     — at 24 V Rated value     • with 1 Current paths in series at DC-3 at DC-5     — at 24 V Rated value     • with 2 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 14 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 120 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3 current paths in series at DC-3 at DC-5     — at 110 V Rated value     • with 3		
at AC-1 up to 690 V     — at ambient temperature 40 °C Rated value     — at ambient temperature 60 °C Rated value     at AC-3     — at 400 V Rated value     — at 690 V Rated value     — at 690 V Rated value     — at 660 °C minimum permissible     at 40 °C minimum permissible     at 40 °C minimum permissible     at 400 V Rated value     at 60 °C minimum permissible     at 400 V Rated value     at 60 °C minimum permissible     at 400 V Rated value     at 600 V Rated value     at 400 V Rated value     at 600 V Rated value     at 110 V Rated value     with 2 current paths in series at DC-5     at 24 V Rated value     at 110 V Rated value     with 3 current paths in series at DC-3 at DC-5     at 110 V Rated value     with 3 current paths in series at DC-3 at DC-5     at 110 V Rated value     with 3 current paths in series at DC-3 at DC-5     at 110 V Rated value     with 3 current paths in series at DC-3 at DC-5     at 110 V Rated value     with 3 current paths in series at DC-3 at DC-5     at 110 V Rated value     with 3 current paths in series at DC-3 at DC-5     at 110 V Rated value     at 24 V Rated value     at 25		610 A
- at ambient temperature 40 °C Rated value	•	
	·	610 A
• at AC-3  — at 400 V Rated value — at 690 V Rated value 450 A  Connectable conductor cross-section in main circuit at AC-1  • at 60 °C minimum permissible • at 40 °C minimum permissible 370 mm²  70 mm²  7	•	550 A
- at 890 V Rated value  Connectable conductor cross-section in main circuit at AC-1  • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 400 V Rated value • at 890 V Rated value • at 890 V Rated value • at 1990 V Rated value • at 1990 V Rated value  - at 110 V Rated value • with 1 current paths in series at DC-1 - at 24 V Rated value • with 3 current paths in series at DC-1 - at 24 V Rated value • with 10 V Rated value • with 3 current paths in series at DC-1 - at 24 V Rated value • with 3 current paths in series at DC-5 - at 24 V Rated value • with 2 current paths in series at DC-5 - at 24 V Rated value • with 2 current paths in series at DC-5 - at 110 V Rated value • with 2 current paths in series at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value	•	
Connectable conductor cross-section in main circuit at AC-1  • at 60 °C minimum permissible 370 mm²  • at 40 °C minimum permissible 370 mm²  Operating current for ≥ 200000 operating cycles at AC-4  • at 400 V Rated value 175 A  • at 690 V Rated value 150 A  Operating current  • with 1 current path at DC-1  — at 24 V Rated value 33 A  • with 2 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 1 Current paths in series at DC-1  — at 24 V Rated value 400 A  • with 10 V Rated value 400 A  • with 2 V Rated value 400 A  • with 1 Current paths in series at DC-5  — at 24 V Rated value 400 A  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  Operating power  • at AC-1  — at 230 V at 60 °C Rated value 151 kW	— at 400 V Rated value	500 A
at AC-1  • at 60 °C minimum permissible • at 40 °C minimum permissible  70 at 40 °C minimum permissible  70 at 400 V Rated value  • at 400 V Rated value  • at 690 V Rated value  • at 690 V Rated value  • with 1 current path at DC-1  — at 24 V Rated value  — at 110 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 110 V Rated value  — at 24 V Rated value  — at 25 V Rated value  — at 25 V Rated value  — at 26 V Rated value  — at 27 V Rated value  — at 28 V Rated value  — at 29 V Rated valu	— at 690 V Rated value	450 A
• at 40 °C minimum permissible     Operating current for ≥ 200000 operating cycles at AC-4     • at 400 V Rated value     • at 690 V Rated value     • at 690 V Rated value     • with 1 current path at DC-1		
Operating current for ≥ 200000 operating cycles at AC-4       175 A         • at 400 V Rated value       150 A         Operating current       150 A         • with 1 current path at DC-1       400 A         — at 24 V Rated value       33 A         • with 2 current paths in series at DC-1       400 A         — at 24 V Rated value       400 A         • with 3 current paths in series at DC-1       400 A         — at 24 V Rated value       400 A         • with 3 current paths in series at DC-1       400 A         — at 110 V Rated value       400 A         • with 1 current path at DC-3 at DC-5       400 A         — at 24 V Rated value       3 A         • with 2 current paths in series at DC-3 at DC-5       400 A         — at 110 V Rated value       400 A         • with 3 current paths in series at DC-3 at DC-5       400 A         — at 24 V Rated value       400 A         • with 3 current paths in series at DC-3 at DC-5       400 A         — at 110 V Rated value       400 A         • with 3 current paths in series at DC-3 at DC-5       400 A         — at 24 V Rated value       400 A         • with 3 current paths in series at DC-3 at DC-5       400 A         — at 24 V Rated value       400 A	• at 60 °C minimum permissible	370 mm²
AC-4  • at 400 V Rated value  • at 690 V Rated value  Operating current  • with 1 current path at DC-1  — at 24 V Rated value  • with 2 current paths in series at DC-1  — at 24 V Rated value  • with 3 current paths in series at DC-1  — at 24 V Rated value  • with 3 current paths in series at DC-1  — at 24 V Rated value  • with 3 current paths in series at DC-1  — at 24 V Rated value  • with 3 current paths in series at DC-1  — at 24 V Rated value  — at 110 V Rated value  400 A  Operating current  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value  400 A	• at 40 °C minimum permissible	370 mm²
• at 400 V Rated value 150 A  • at 690 V Rated value 150 A  Operating current  • with 1 current path at DC-1  — at 24 V Rated value 400 A  — at 110 V Rated value 400 A  • with 2 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  Operating current  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  Operating power  • at AC-1  — at 230 V at 60 °C Rated value 151 kW	Operating current for ≥ 200000 operating cycles at	
• at 690 V Rated value  Operating current  • with 1 current path at DC-1  — at 24 V Rated value — at 110 V Rated value — at 210 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 23 V Rated value	AC-4	
Operating current  • with 1 current path at DC-1  — at 24 V Rated value 400 A  • with 2 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths at DC-3 at DC-5  — at 24 V Rated value 400 A  Operating current  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A	at 400 V Rated value	175 A
• with 1 current path at DC-1  — at 24 V Rated value 400 A  — at 110 V Rated value 33 A  • with 2 current paths in series at DC-1  — at 24 V Rated value 400 A  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  Operating current  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A	• at 690 V Rated value	150 A
- at 24 V Rated value - at 110 V Rated value  • with 2 current paths in series at DC-1 - at 24 V Rated value  • with 3 current paths in series at DC-1 - at 24 V Rated value  • with 3 current paths in series at DC-1 - at 24 V Rated value - at 110 V Rated value  • with 3 current paths in series at DC-1 - at 24 V Rated value - at 110 V Rated value  • with 1 current path at DC-3 at DC-5 - at 24 V Rated value - at 110 V Rated value  • with 2 current paths in series at DC-3 at DC-5 - at 110 V Rated value - at 24 V Rated value - at 24 V Rated value  • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value - at 24 V Rated value  • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value  • with 3 current paths in series at DC-3 at DC-5 - at 24 V Rated value  • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value  • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value  • with 3 current paths in series at DC-3 at DC-5 - at 110 V Rated value  151 kW	Operating current	
- at 110 V Rated value  • with 2 current paths in series at DC-1  - at 24 V Rated value  • with 3 current paths in series at DC-1  - at 24 V Rated value  • with 3 current paths in series at DC-1  - at 24 V Rated value  - at 110 V Rated value  400 A  400 A  Operating current  • with 1 current path at DC-3 at DC-5  - at 24 V Rated value  400 A  - at 110 V Rated value  400 A  • with 2 current paths in series at DC-3 at DC-5  - at 110 V Rated value  400 A  • with 2 current paths in series at DC-3 at DC-5  - at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 24 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 24 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value  151 kW	<ul><li>with 1 current path at DC-1</li></ul>	
with 2 current paths in series at DC-1  — at 24 V Rated value 400 A  — at 110 V Rated value 400 A  with 3 current paths in series at DC-1  — at 24 V Rated value 400 A  — at 110 V Rated value 400 A  Operating current  with 1 current path at DC-3 at DC-5  — at 24 V Rated value 3 A  with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  with 3 current paths in series at DC-3 at DC-5  — at 24 V Rated value 400 A  Operating power  at AC-1  — at 230 V at 60 °C Rated value 151 kW	— at 24 V Rated value	400 A
- at 24 V Rated value 400 A  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-1  - at 24 V Rated value 400 A  - at 110 V Rated value 400 A  Operating current  • with 1 current path at DC-3 at DC-5  - at 24 V Rated value 400 A  - at 110 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 124 V Rated value 400 A  Operating power  • at AC-1  - at 230 V at 60 °C Rated value 151 kW	— at 110 V Rated value	33 A
- at 110 V Rated value  • with 3 current paths in series at DC-1  - at 24 V Rated value  - at 110 V Rated value  400 A  Operating current  • with 1 current path at DC-3 at DC-5  - at 24 V Rated value  400 A  400 A  Operating current  • with 1 current path at DC-3 at DC-5  - at 24 V Rated value  400 A  • with 2 current paths in series at DC-3 at DC-5  - at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value  400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value  • with 3 current paths in series at DC-3 at DC-5  - at 24 V Rated value  400 A  Operating power  • at AC-1  - at 230 V at 60 °C Rated value  151 kW	<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
with 3 current paths in series at DC-1     — at 24 V Rated value	— at 24 V Rated value	400 A
- at 24 V Rated value 400 A  - at 110 V Rated value 400 A  Operating current  • with 1 current path at DC-3 at DC-5  - at 24 V Rated value 400 A  - at 110 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  - at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 24 V Rated value 400 A  Operating power  • at AC-1  - at 230 V at 60 °C Rated value 151 kW	— at 110 V Rated value	400 A
— at 110 V Rated value 400 A  Operating current  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value 400 A  — at 110 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  Operating power  • at AC-1  — at 230 V at 60 °C Rated value 151 kW	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
Operating current  • with 1 current path at DC-3 at DC-5  — at 24 V Rated value 400 A  — at 110 V Rated value 3 A  • with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  Operating power  • at AC-1  — at 230 V at 60 °C Rated value 151 kW	— at 24 V Rated value	400 A
<ul> <li>with 1 current path at DC-3 at DC-5  — at 24 V Rated value 400 A  — at 110 V Rated value 3 A</li> <li>with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A</li> <li>with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A</li> </ul>	— at 110 V Rated value	400 A
<ul> <li>— at 24 V Rated value</li> <li>— at 110 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 24 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 24 V Rated value</li> <li>400 A</li> <li>Operating power</li> <li>● at AC-1</li> <li>— at 230 V at 60 °C Rated value</li> <li>151 kW</li> </ul>	Operating current	
- at 110 V Rated value  • with 2 current paths in series at DC-3 at DC-5  - at 110 V Rated value  - at 24 V Rated value  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value  • with 3 current paths in series at DC-3 at DC-5  - at 24 V Rated value  400 A  400 A  Operating power  • at AC-1  - at 230 V at 60 °C Rated value  151 kW	<ul><li>with 1 current path at DC-3 at DC-5</li></ul>	
with 2 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A  with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A  Operating power  at AC-1  — at 230 V at 60 °C Rated value 151 kW	— at 24 V Rated value	
- at 110 V Rated value 400 A  - at 24 V Rated value 400 A  • with 3 current paths in series at DC-3 at DC-5  - at 110 V Rated value 400 A  - at 24 V Rated value 400 A  Operating power  • at AC-1  - at 230 V at 60 °C Rated value 151 kW	— at 110 V Rated value	3 A
<ul> <li>— at 24 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 24 V Rated value</li> <li>400 A</li> <li>Operating power</li> <li>● at AC-1</li> <li>— at 230 V at 60 °C Rated value</li> <li>151 kW</li> </ul>	• with 2 current paths in series at DC-3 at DC-5	
<ul> <li>with 3 current paths in series at DC-3 at DC-5  — at 110 V Rated value 400 A  — at 24 V Rated value 400 A</li> <li>Operating power  • at AC-1  — at 230 V at 60 °C Rated value 151 kW</li> </ul>	— at 110 V Rated value	400 A
— at 110 V Rated value 400 A  — at 24 V Rated value 400 A  Operating power  ■ at AC-1  — at 230 V at 60 °C Rated value 151 kW	— at 24 V Rated value	400 A
— at 24 V Rated value 400 A  Operating power  • at AC-1  — at 230 V at 60 °C Rated value 151 kW	• with 3 current paths in series at DC-3 at DC-5	
Operating power   ● at AC-1  — at 230 V at 60 °C Rated value  151 kW	— at 110 V Rated value	
• at AC-1 — at 230 V at 60 °C Rated value 151 kW	— at 24 V Rated value	400 A
— at 230 V at 60 °C Rated value 151 kW	Operating power	
	• at AC-1	
— at 400 V Rated value 362 kW	— at 230 V at 60 °C Rated value	
— at 700 v Natou value	— at 400 V Rated value	362 kW

— at 690 V Rated value	624 kW
— at 690 V at 60 °C Rated value	624 kW
• at AC-2 at 400 V Rated value	291 kW
• at AC-3	
— at 230 V Rated value	164 kW
— at 400 V Rated value	291 kW
— at 500 V Rated value	363 kW
— at 690 V Rated value	453 kW
Operating power for ≥ 200000 operating cycles at AC-4	
at 400 V Rated value	98 kW
at 690 V Rated value	148 kW
Thermal short-time current restricted to 10 s	4 000 A
Active power loss at AC-3 at 400 V for rated value of	55 W
the operating current per conductor	
No-load switching frequency	
● at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control:	

Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
● at 50 Hz Rated value	42 48 V
● at 60 Hz Rated value	42 48 V
Control supply voltage at DC	
Rated value	42 48 V
Rated value	40 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil at DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of the magnet coil at AC	830 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil at AC	9.2 V·A

Inductive power factor with the holding power of the coil	0.9
Closing power of the magnet coil at DC	920 W
Holding power of the magnet coil for DC	10 W
Closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
Opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
Arcing time	10 15 ms
Auxiliary circuit:	
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>instantaneous contact</li></ul>	2
Number of NO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>instantaneous contact</li></ul>	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	6 A
• at 400 V Rated value	3 A
Operating current at DC-12	
• at 60 V Rated value	6 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1 A
Operating current at DC-13	
● at 24 V Rated value	10 A
• at 60 V Rated value	2 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	fuse gL/gG: 630 A
— with type of assignment 2 required	fuse gL/gG: 500 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	

Mounting type	screw fixing
<ul> <li>Side-by-side mounting</li> </ul>	Yes
Height	214 mm
Width	160 mm
Depth	225 mm
Required spacing	
<ul><li>for grounded parts</li></ul>	
— at the side	10 mm

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-section	
<ul> <li>for AWG conductors for main contacts</li> </ul>	2/0 500 kcmil
Type of connectable conductor cross-section	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12

# Certificates/ approvals:

# **General Product Approval**

Functional Safety/Safety of Machinery Declaration of Conformity









Baumusterbescheini gung



### **Test Certificates**

# **Shipping Approval**

Typprüfbescheinigu ng/Werkszeugnis

<u>spezielle</u> <u>Prüfbescheinigunge</u>

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### other

Bestätigungen Umweltbestätigung

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#### Further information

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

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

#### Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

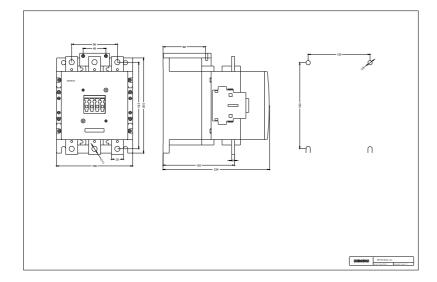
### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10766AD36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT10766AD36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT10766AD36&lang=en





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