# **SIEMENS**

Data sheet 3RT1275-6AP36

Vacuum contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S12 Busbar connections Drive: conventional



product brand name	SIRIUS
product designation	Vacuum contactor
product type designation	3RT12

General technical data	
Size of contactor	S12
<ul> <li>Product extension function module for communication</li> </ul>	No
<ul> <li>product extension auxiliary switch</li> </ul>	Yes
<ul> <li>power loss [W] for rated value of the current at AC in hot operating state</li> </ul>	63 W
<ul> <li>power loss [W] for rated value of the current at AC in hot operating state per pole</li> </ul>	21 W
power loss [W] for rated value of the current without load current share typical	10 W
Surge voltage resistance	
of main circuit rated value	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation	

<ul> <li>between coil and main contacts acc. to EN 60947-1</li> </ul>	690 V
protection class IP	
• on the front	IP00; IP20 on the front with cover / box terminal
of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
Shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>	5 000 000
compatible auxiliary switch block typical	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
installation altitude at height above sea level	2 000 m
maximum	
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
Number of NO contacts for main contacts	3
<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>Operating current at AC-1 at 400 V</li> </ul>	
— at ambient temperature 40 °C rated value	610 A
<ul> <li>Operating current at AC-1</li> </ul>	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	610 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	550 A
— up to 1000 V at ambient temperature 40 °C rated value	610 A
— up to 1000 V at ambient temperature 60 °C rated value	550 A
<ul> <li>Operating current at AC-2 at 400 V rated value</li> </ul>	400 A
<ul> <li>— operating current at AC-3 at 400 V rated value</li> </ul>	400 A

— Operating current at AC-3 at 690 V rated value — Operating current at AC-3 at 1000 V rated value  • Operating current at AC-4 at 400 V rated value • Operating current at AC-4 at 400 V rated value  • Operating current at AC-6 at 400 V rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — operating power at AC-3 at 230 V rated value — operating power at AC-3 at 400 V rated value — operating power at AC-3 at 500 V rated value — operating power at AC-3 at 500 V rated value — operating power at AC-3 at 500 V rated value — operating power at AC-3 at 690 V rated value — operating power at AC-3 at 690 V rated value — operating power at AC-3 at 690 V rated value	<ul> <li>Operating current at AC-3 at 500 V rated value</li> </ul>	400 A
- Operating current at AC-3 at 1000 V rated value  • Operating current at AC-4 at 400 V rated value  • Operating current at AC-6a	— Operating current at AC-3 at 690 V rated	400 A
Operating current at AC-4 at 400 V rated value Operating current at AC-6a  — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 230 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — operating power at AC-3 at 230 V rated value — operating power at AC-3 at 400 V rated value — operating power at AC-3 at 400 V rated value — operating power at AC-3 at 400 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value — operating power at AC-3 at 600 V rated value	— Operating current at AC-3 at 1000 V rated	400 A
Operating current at AC-6a     — up to 230 V for current peak value n=20 rated value     — up to 400 V for current peak value n=20 400 A rated value     — up to 500 V for current peak value n=20 rated value     — up to 900 V for current peak value n=20 400 A rated value     — up to 1000 V for current peak value n=20 rated value     — up to 1000 V for current peak value n=20 rated value     — up to 230 V for current peak value n=30 rated value     — up to 230 V for current peak value n=30 293 A rated value     — up to 500 V for current peak value n=30 293 A rated value     — up to 500 V for current peak value n=30 293 A rated value     — up to 690 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 293 A rated value     — up to 4000 V for current peak value n=30 293 A rated value     — up to 500 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 293 A rated value     — up to 1000 V for current peak value n=30 200 Km   Minimum cross-section in main circuit     • at maximum AC-1 rated value     • at 400 V rated value     • at 690 V rated value     • Operating power at AC-3 at 230 V rated value     — operating power at AC-3 at 230 V rated value     — operating power at AC-3 at 500 V rated value     — operating power at AC-3 at 500 V rated value     — operating power at AC-3 at 690 V rated value     — operating power at AC-3 at 690 V rated value     — operating power at AC-3 at 690 V rated value     — operating power at AC-3 at 690 V rated value     — operating power at AC-3 at 690 V rated value		350 A
rated value  — up to 400 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 1000 V for current peak value n=20 rated value  — up to 1000 V for current peak value n=20 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 230 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — operating power at AC-3 at 230 V rated value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value  — operating power at AC-3 at 600 V rated value		400 A
rated value	· · · · · · · · · · · · · · · · · · ·	40071
rated value	•	400 A
rated value  — up to 1000 V for current peak value n=20 rated value  • Operating current at AC-6a  — up to 230 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  1000 Minimum cross-section in main circuit  1000 1 to 1000 V for current peak value n=30 rated value  1000 1 to 1000 V for current peak value n=30 rated value  115 A  129 A  1300 mm²  175 A  120 A  121 A  122 A  123 A  124 C  125 A  126 C  127 A  128 C  128 C  129 A  129	·	400 A
rated value  Operating current at AC-6a  — up to 230 V for current peak value n=30 rated value  — up to 400 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 690 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — up to 1000 V for current peak value n=30 rated value  — 1000 V for current peak value n=30 rated value  1000 mm²  115 A  123 A  124 A  125 A  126 Operating power at AC-2 at 400 V rated value  — operating power at AC-3 at 230 V rated value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value	·	400 A
- up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value  Minimum cross-section in main circuit  at maximum AC-1 rated value  Operating current for approx. 200000 operating cycles at AC-4  at 400 V rated value  175 A  at 690 V rated value  Operating power at AC-2 at 400 V rated value  operating power at AC-3 at 230 V rated value  operating power at AC-3 at 400 V rated value  operating power at AC-3 at 500 V rated value  operating power at AC-3 at 500 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value		400 A
- up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value  Minimum cross-section in main circuit  at maximum AC-1 rated value  Operating current for approx. 200000 operating cycles at AC-4  at 400 V rated value  175 A  at 690 V rated value  Operating power at AC-2 at 400 V rated value  operating power at AC-3 at 230 V rated value  operating power at AC-3 at 400 V rated value  operating power at AC-3 at 500 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value	Operating current at AC-6a	
- up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value  Minimum cross-section in main circuit • at maximum AC-1 rated value  Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value  Operating power at AC-2 at 400 V rated value  Operating power at AC-3 at 230 V rated value - operating power at AC-3 at 400 V rated value - operating power at AC-3 at 500 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated value - operating power at AC-3 at 690 V rated	— up to 230 V for current peak value n=30	293 A
rated value  up to 690 V for current peak value n=30 rated value  up to 1000 V for current peak value n=30 rated value  up to 1000 V for current peak value n=30 rated value  Minimum cross-section in main circuit  • at maximum AC-1 rated value  300 mm²  Operating current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  • Operating power at AC-2 at 400 V rated value  operating power at AC-3 at 230 V rated value  operating power at AC-3 at 400 V rated value  operating power at AC-3 at 500 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated value	— up to 400 V for current peak value n=30	293 A
rated value  — up to 1000 V for current peak value n=30 rated value  Minimum cross-section in main circuit  • at maximum AC-1 rated value  Operating current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  • Operating power at AC-2 at 400 V rated value  • operating power at AC-3 at 230 V rated value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value  — operating power at AC-3 at 690 V rated value	·	293 A
rated value  Minimum cross-section in main circuit  • at maximum AC-1 rated value  Operating current for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  • Operating power at AC-2 at 400 V rated value  • operating power at AC-3 at 230 V rated value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 690 V rated  value  — operating power at AC-3 at 690 V rated  400 kW		293 A
at maximum AC-1 rated value  Operating current for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  Operating power at AC-2 at 400 V rated value  Operating power at AC-3 at 230 V rated value  operating power at AC-3 at 400 V rated value  operating power at AC-3 at 500 V rated value  operating power at AC-3 at 500 V rated value  operating power at AC-3 at 690 V rated value  operating power at AC-3 at 690 V rated 400 kW	•	293 A
Operating current for approx. 200000 operating cycles at AC-4  • at 400 V rated value 175 A  • at 690 V rated value 2200 kW  • Operating power at AC-2 at 400 V rated value operating power at AC-3 at 230 V rated value value operating power at AC-3 at 400 V rated value 200 kW  - operating power at AC-3 at 400 V rated value 200 kW value 400 value 400 kW	Minimum cross-section in main circuit	
cycles at AC-4  • at 400 V rated value  • at 690 V rated value  • Operating power at AC-2 at 400 V rated value  • Operating power at AC-3 at 230 V rated value  - operating power at AC-3 at 400 V rated value  - operating power at AC-3 at 400 V rated value  - operating power at AC-3 at 500 V rated value  - operating power at AC-3 at 690 V rated value  - operating power at AC-3 at 690 V rated value  - operating power at AC-3 at 690 V rated value  - operating power at AC-3 at 690 V rated value  - operating power at AC-3 at 690 V rated value  - operating power at AC-3 at 690 V rated value	• at maximum AC-1 rated value	300 mm <sup>2</sup>
<ul> <li>at 690 V rated value</li> <li>Operating power at AC-2 at 400 V rated value</li> <li>operating power at AC-3 at 230 V rated value</li> <li>operating power at AC-3 at 400 V rated value</li> <li>operating power at AC-3 at 400 V rated value</li> <li>operating power at AC-3 at 500 V rated value</li> <li>operating power at AC-3 at 690 V rated value</li> <li>operating power at AC-3 at 690 V rated 400 kW</li> </ul>		
<ul> <li>Operating power at AC-2 at 400 V rated value</li> <li>— operating power at AC-3 at 230 V rated value</li> <li>— operating power at AC-3 at 400 V rated value</li> <li>— operating power at AC-3 at 500 V rated value</li> <li>— operating power at AC-3 at 500 V rated value</li> <li>— operating power at AC-3 at 690 V rated 400 kW</li> </ul>	• at 400 V rated value	175 A
<ul> <li>— operating power at AC-3 at 230 V rated value</li> <li>— operating power at AC-3 at 400 V rated value</li> <li>— operating power at AC-3 at 500 V rated value</li> <li>— operating power at AC-3 at 690 V rated 400 kW</li> </ul>	• at 690 V rated value	123 A
value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 690 V rated 400 kW	<ul> <li>Operating power at AC-2 at 400 V rated value</li> </ul>	200 kW
value  — operating power at AC-3 at 400 V rated value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 690 V rated 400 kW	•	
value  — operating power at AC-3 at 500 V rated value  — operating power at AC-3 at 690 V rated 400 kW		132 kW
value  — operating power at AC-3 at 690 V rated  400 kW		200 kW
Special Street and Control of the Street Str		250 kW
		400 kW

<ul> <li>Operating power at AC-3 at 1000 V rated value</li> </ul>	560 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	98 kW
• at 690 V rated value	172 kW
Operating apparent output at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	150 000 kV·A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	270 000 V·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	340 000 V·A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	470 000 V·A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	690 000 V·A
Operating apparent output at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	110 000 V·A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	200 000 V·A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	250 000 V·A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	350 000 V·A
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	500 000 V·A
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency at AC-1 maximum	700 1/h
Operating frequency at AC-2 maximum	250 1/h
operating frequency at AC-3 maximum	750 1/h
Operating frequency at AC-4 maximum	250 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
<ul> <li>control supply voltage at AC at 50 Hz rated value</li> </ul>	220 240 V
<ul> <li>control supply voltage at AC at 60 Hz rated value</li> </ul>	220 240 V
control supply voltage at DC	
• rated value	220 240 V

Operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	830 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
● at 50 Hz	9.2 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.9
Closing power of magnet coil at DC	920 W
Holding power of magnet coil at 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
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	2
instantaneous contact	
Number of NO contacts for auxiliary contacts	2
instantaneous contact	
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
● at 500 V rated value	2 A
• at 690 V rated value	1 A
<ul> <li>Operating current at DC-12 at 24 V rated value</li> </ul>	10 A
• operating current at DC-12 at 48 V rated value	6 A
Operating current at DC-12 at 60 V rated value	6 A

• operating current at DC-12 at 110 V rated value	3 A
<ul> <li>Operating current at DC-12 at 125 V rated value</li> </ul>	2 A
<ul> <li>Operating current at DC-12 at 220 V rated value</li> </ul>	1 A
<ul> <li>Operating current at DC-12 at 600 V rated value</li> </ul>	0.15 A
Operating current at DC-13 at 24 V rated value	10 A
• operating current at DC-13 at 48 V rated value	2 A
<ul> <li>Operating current at DC-13 at 60 V rated value</li> </ul>	2 A
• operating current at DC-13 at 110 V rated value	1 A
<ul> <li>Operating current at DC-13 at 125 V rated value</li> </ul>	0.9 A
<ul> <li>Operating current at DC-13 at 220 V rated value</li> </ul>	0.3 A
<ul> <li>Operating current at DC-13 at 600 V rated value</li> </ul>	0.1 A
contact reliability of 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	361 A
● at 600 V rated value	382 A
yielded mechanical performance [hp]	
<ul> <li>for three-phase AC motor</li> </ul>	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
<ul> <li>Design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required</li> </ul>	gG: 800 A (690 V, 100 kA)
<ul> <li>Design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required</li> </ul>	gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA)
<ul> <li>design of the fuse link for short-circuit</li> </ul>	gG: 10 A (500 V, 1 kA)
protection of the auxiliary switch required	
Installation/ mounting/ dimensions	
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface; standing, on horizontal mounting surface

• mounting type

screw fixing

<ul> <li>mounting type side-by-side mounting</li> </ul>	Yes
height	210 mm
width	145 mm
depth	206 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Width of connection bar	25 mm	
Thickness of connection bar	6 mm	
Diameter of holes	11 mm	
Number of holes	1	
<ul> <li>type of electrical connection for main current circuit</li> </ul>	Connection bar	
<ul> <li>type of electrical connection for auxiliary and control current circuit</li> </ul>	screw-type terminals	
<ul> <li>Type of electrical connection at contactor for auxiliary contacts</li> </ul>	Screw-type terminals	
Type of electrical connection of magnet coil	Screw-type terminals	
<ul> <li>type of connectable conductor cross-sections at AWG conductors for main contacts</li> </ul>	2/0 500 kcmil	
connectable conductor cross-section for main contacts		
• stranded	70 240 mm²	
connectable conductor cross-section for auxiliary contacts		
• single or multi-stranded	0.5 4 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²	
<ul> <li>type of connectable conductor cross-sections for auxiliary contacts solid</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²	

<ul> <li>type of connectable conductor cross-sections for auxiliary contacts single or multi-stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>type of connectable conductor cross-sections at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	
section	
for auxiliary contacts	18 14

Safety related data	
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation acc. to IEC 60947-5-</li> </ul>	No
protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Suitability for use safety-related switching OFF	Yes

# Certificates/ approvals

**General Product Approval** 

**EMC** 

**Functional** Safety/Safety of Machinery











Type Examination Certificate

<b>Declaration of</b>	Confo	rmity
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### **Test Certificates**

## Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





Confirmation

Miscellaneous

Special Test Certificate

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=3RT1275-6AP36

### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1275-6AP36

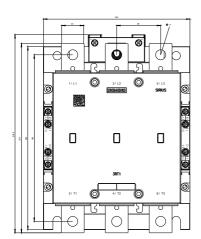
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AP36

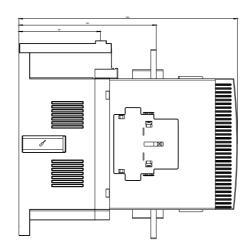
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1275-6AP36&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1275-6AP36&lang=en</a>

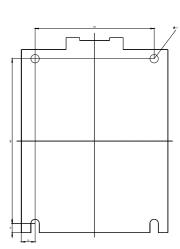
Characteristic: Tripping characteristics, I2t, Let-through current

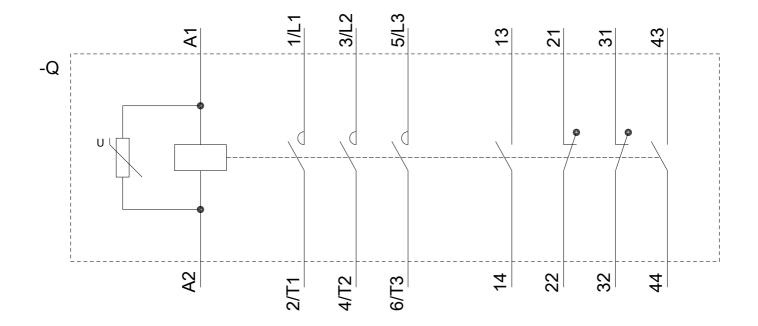
https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AP36/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1275-6AP36&objecttype=14&gridview=view1









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