## SIEMENS

## Data sheet

## 3RT2026-1AL24-3MA0



Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC, 230 V AC, 50 / 60 Hz, 3-pole, Size S0, Screw terminal Captive auxiliary switch

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	SO		
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>	5.7 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W		
<ul> <li>without load current share typical</li> </ul>	10.5 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V		
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	6 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V		
shock resistance at rectangular impulse			
• at AC	8,3g / 5 ms, 5,3g / 10 ms		
shock resistance with sine pulse			
• at AC	13,5g / 5 ms, 8,3g / 10 ms		
mechanical service life (switching cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
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	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 A
• at AC-5b up to 400 V rated value	20.7 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	20.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	20.2 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	20.2 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	12.9 A
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul>	13.5 A
— up to 400 V for current peak value n=30 rated value	13.5 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	13.5 A
up to 690 V for current peak value n=30 rated value	13 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm <sup>2</sup>
cycles at AC-4	
at 400 V rated value	9 A
• at 690 V rated value	9 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
- at 24 V rated value	35 A
— at 110 V rated value	35 A 35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	

- at 24 V rated value         35 Å           - at 22 V rated value         35 Å           - at 22 V rated value         35 Å           - at 24 V rated value         29 Å           - at 24 V rated value         29 Å           - at 24 V rated value         29 Å           - at 24 V rated value         20 Å           - at 24 V rated value         20 Å           - at 24 V rated value         20 Å           - at 24 V rated value         0.00 Å           - at 24 V rated value         0.00 Å           - at 240 V rated value         0.16 Å           - at 240 V rated value         0.16 Å           - at 240 V rated value         0.16 Å           - at 240 V rated value         0.6 Å           - at 230 V rated value         0.6 Å           - at 230 V rated value         0.6 Å           - at 230 V rated value         1.1 kW           - at 230 V rated value         5.5 kW           - at 230 V rated value         1.1 kW		
<ul> <li>af 20 Y rady value</li> <li>af 85 Å</li> <li>af 800 Y rady value</li> <li< td=""><td>— at 24 V rated value</td><td>35 A</td></li<></ul>	— at 24 V rated value	35 A
- all 440 Yradd value29.A- all 420 Yradd value14.A- all 24V radd value20.A- all 14V radd value20.A- all 24V radd value20.A- all 24V radd value0.09 A- all 250 Yradd value0.09 A- all 24V radd value0.09 A- all 250 Yradd value0.09 A- all 24V radd value0.09 A- all 24V radd value0.09 A- all 24V radd value0.5A- all 24V radd value0.6A- all 24V radd value0.6A- all 24V radd value0.6A- all 230 Vradd value0.6A- all 230 Vradd value11KW- all 230 Vradd value11KW <td< td=""><td></td><td></td></td<>		
• at 1 current path at DC-3 at DC-5- at 24 V rade Value25 A- at 25 V rade Value25 A- at 20 V rade Value0.99 A- at 20 V rade Value0.99 A- at 20 V rade Value0.99 A- at 24 V rade Value35 A- at 25 V rade Value35 A- at 26 V rade Value0.16 A- at 27 V rade Value0.16 A- at 26 V rade Value0.16 A- at 27 V rade Value35 A- at 26 V rade Value0.16 A- at 27 V rade Value0.6 A- at 27 V rade Value0.6 A- at 27 V rade Value10 A- at 27 V rade Value10 A- at 28 V rate Value10 A- at 29 V rate Value10 A- at 20 V rated Value10 A- at 20 V rated Value16 A- at 20 V rated Value11 KW- at 20 V rated Value12 KVA- at 20 V rated Value13 KVA- at 20 V rated Value13 KVA- at 20 V rated Value13 KVA- at 20 V rated Value14 KVA- at 20 V rated Value12 KVA- at 20 V rated Value13 KVA- at 20 V rated Value13 KVA- at 20 V rated Value <td>— at 440 V rated value</td> <td></td>	— at 440 V rated value	
- at 20 V rated value20 A- at 100 V rated value2.5 A- at 420 V rated value0.09 A- at 440 V rated value0.09 A- at 420 V rated value0.06 A- at 420 V rated value35 A- at 24 V rated value35 A- at 240 V rated value36 A- at 250 V rated value0.6 A- at 250 V rated value0.6 A- at 260 V rated value0.6 A- at 270 V rated value10 A- at 280 V rated value11 kW- at 200 V rated value55 kW- at 200 V rated value11 kW- at 200 V rated value11 kW- at 200 V rated value12 kW- at 200 V rated value13 kVA- at 200 V rated value n=20 rated value14 kW- at 690 V rated value n=20 rated value15 kVA- at 690 V rated value n=20 rated value15 kVA- at 690 V fracternet paek value n=20 rated		1.4 A
-25 Å-at 200 V rated value0.00 Å-at 440 V rated value0.00 Å-at 600 V rated value0.00 Å-at 600 V rated value0.00 Å-at 600 V rated value35 Å-at 200 V rated value0.16 Å-at 700 V rated value0.16 Å-at 600 V rated value0.16 Å-at 600 V rated value0.16 Å-at 400 V rated value0.16 Å-at 400 V rated value0.6 Å-at 400 V rated value0.6 Å-at 20 V rated value0.6 Å-at 20 V rated value0.6 Å-at 20 V rated value10 Å-at 20 V rated value11 KW-at 60 V rated value55 KW-at 60 V rated value11 KW-at 60 V rated value11 KW-at 60 V rated value55 KW-at 60 V rated value55 KW-at 60 V rated val	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
- at 200 Y rated value1 A- at 440 V rated value0.06 A- at 600 V rated value0.06 A- at 24 V rated value0.06 A- at 24 V rated value0.6 A- at 24 V rated value15 A- at 24 V rated value0.27 A- at 600 V rated value0.27 A- at 600 V rated value0.16 A- at 24 V rated value35 A- at 24 V rated value0.16 A- at 24 V rated value0.6 A- at 20 V rated value0.6 A- at 24 V rated value0.6 A- at 24 V rated value10 A- at 24 V rated value10 A- at 250 V rated value10 A- at 250 V rated value10 A- at 250 V rated value11 KW- at 650 V rated value15 KW- at 650 V rated value16 KWA- at 650 V rated value16 KWA<	— at 24 V rated value	
	— at 110 V rated value	2.5 A
	— at 220 V rated value	1 A
• with 2 current paths in series at DC-3 at DC-535 A- at 24 V rated value35 A- at 220 V rated value37 A- at 220 V rated value37 A- at 240 V rated value35 A- at 240 V rated value36 A- at 240 V rated value36 A- at 220 V rated value10 A- at 220 V rated value6 A- at 220 V rated value6 A- at 230 V rated value11 KW- at 400 V rated value11 KW- at 230 V rated value11 KW- at 400 V rated value11 KW- at 600 V rated value11 KW- at 600 V rated value13 KA- at 600 V fract value n=20 rated value13 KA- at	— at 440 V rated value	
	— at 600 V rated value	0.06 A
	<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	15 A
	— at 220 V rated value	3 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5         <ul> <li>- at 24 V rated value</li> <li>- at 24 V rated value</li> <li>- at 220 V rated value</li> <li>- at 220 V rated value</li> <li>- at 240 V rated value</li> <li>- at 240 V rated value</li> <li>- at 240 V rated value</li> <li>- at 440 V rated value</li> <li>- at 440 V rated value</li> <li>- at 400 V rated value</li> <li>- at 400 V rated value</li> <li>- at 230 V rated value</li> <li>- at 360 V rated value</li> <li>- at 360 V rated value</li> <li>- at 860 V rated value</li> <li>- 1 7 kWA</li> <li>- up to 200 V for current peak value n=30 rated value</li> <li>- 1 5</li></ul></li></ul>	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	
	— at 110 V rated value	35 A
	— at 220 V rated value	10 A
operating power <ul> <li>at AC-3</li> <li>at AC -3e</li> <li>at 500 V rated value</li> <li>at WW</li> <li>at AC -3e</li> <li>at 500 V rated value</li> <li>at WW</li> <li>at AC -3e</li> <li>at 400 V rated value</li> <li>at WW</li> <li>at 500 V rated value</li> <li>at WW</li> <li>at 500 V rated value</li> <li>at WW</li> <li>at 600 V rated value</li> <li>at WW</li> <li>at 400 V rated value</li> <li>at WW</li> <li>at 400 V rated value</li> <li>at WW</li> <li>at 400 V rated value</li> <li>at WW</li> <li>at 600 V rated value</li> <li>at WW</li> <li>at 600 V rated value</li> <li>at WW</li> <li>at 600 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 600 V for current peak value n=20 rated value</li> <li>at 600 V for current peak value n=20 rated value</li> <li>by to 230 V for current peak value n=20 rated value</li> <li>by to 200 V for current peak value n=20 rated value</li> <li>by to 200 V for current peak value n=30 rated value</li> <li>by to 200 V for current peak value n=30 rated value</li> <li>by to 400 V for current peak value n=30 rated value</li> <li>by to 500 V for current peak value n=30 rated value</li> <li>by to 500 V for current peak value n=30 rated value</li> <li>by to</li></ul>	— at 440 V rated value	0.6 A
• at AC-35.5 kW- at 230 V rated value11 kW- at 500 V rated value11 kW- at 690 V rated value11 kW- at 690 V rated value11 kW- at 230 V rated value11 kW- at 230 V rated value11 kW- at 230 V rated value11 kW- at 300 V rated value11 kW- at 690 V rated value24 kW- at 690 V rated value7.7 kWoperating apparent power at AC-6a8 kVA- up to 230 V for current peak value n=20 rated value13.9 kVA- up to 230 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a9.3 kVA- up to 530 V for current peak value n=30 rated value15.4 kVAoperating apparent power at AC-6a9.3 kVA- up to 500 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state11 kVA- up to 600 V for current peak value n=30 rated value290 A; Use minimum cross-section acc. to AC-1 rated value- limited to 1 s switching at zero current maximum16 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current maximum16 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current maximum16 A; Use minimum cross	— at 600 V rated value	0.6 A
	operating power	
at 400 V rated value11 kW at 500 V rated value11 kW at 600 V rated value11 kW at 230 V rated value5.5 kW at 400 V rated value11 kW at 600 V rated value4.4 kW at 600 V rated value7.7 kWoperating apparent power at AC-6a8 kVA up to 230 V for current peak value n=20 rated value8 kVA up to 230 V for current peak value n=20 rated value15.4 kVA operating apparent power at AC-6a5.3 kVA up to 690 V for current peak value n=30 rated value5.3 kVA up to 690 V for current peak value n=30 rated value5.3 kVA up to 690 V for current peak value n=30 rated value11.6 kVA up to 690 V for current peak value n=30 rated value12.8 kVA up to 690 V for current peak value n=30 rated value12.8 kVA up to 690 V for current peak value n=30 rated value12.8 kVA up to 690 V for current peak value n=30 rated value12.8 kVA et to 600 V for current peak value n=30 rated value12.8 kVA et to 600 V for current peak value n=30 rated value12.8 kVA et to 600 V for current peak value n=30 rated value12.8 kVA et to 600 V for current peak value n=30 rated value12.8 kVA et to 600 V for curren	• at AC-3	
at 500 V rated value11 kW at 690 V rated value11 kW• at AC-3e at 230 V rated value5.5 kW at 400 V rated value11 kW at 500 V rated value11 kW at 630 V rated value7.7 kWoperating apparent power at AC-6a8 kVA up to 530 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 500 V for current peak value n=20 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 530 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 40 °C imined to 1 s switching at zero current maximum imined to 1 s switching at zero current maximum imined to 50 s switching at zero current maximum limited to 50 s	— at 230 V rated value	5.5 kW
at 690 V rated value11 kW• at AC-3e at 230 V rated value55 kW at 400 V rated value11 kW at 690 V rated value7.7 kWoperating apparent power at AC-6a8 kVA up to 230 V for current peak value n=20 rated value13.9 kVA up to 690 V for current peak value n=20 rated value15.4 kVA up to 690 V for current peak value n=30 rated value15.4 kVA up to 500 V for current peak value n=30 rated value9.3 kVA up to 500 V for current peak value n=30 rated value9.3 kVA up to 500 V for current peak value n=30 rated value9.3 kVA up to 500 V for current peak value n=30 rated value9.3 kVA up to 600 V for current peak value n=30 rated value9.3 kVA up to 500 V for current peak value n=30 rated value9.3 kVA up to 600 V for current peak value n=30 rated value9.3 kVA up to 600 V for current peak value n=30 rated value9.3 kVA up to 600 V for current peak value n=30 rated value9.3 kVA up to 600 V for current peak value n=30 rated value10.6 kVA up to 600 V for current peak value n=30 rated value10.6 kVA up to 60° C	— at 400 V rated value	11 kW
• at AC-3e- at 230 V rated value5.5 kW- at 400 V rated value11 kW- at 600 V rated value4.4 kW- at 600 V rated value7.7 kWoperating apparent power at AC-6a8 kVA- up to 230 V for current peak value n=20 rated value13.9 kVA- up to 500 V for current peak value n=20 rated value15.4 kVA- up to 500 V for current peak value n=20 rated value15.4 kVA- up to 230 V for current peak value n=20 rated value5.3 kVA- up to 230 V for current peak value n=20 rated value15.4 kVA- up to 500 V for current peak value n=20 rated value5.3 kVA- up to 500 V for current peak value n=20 rated value5.3 kVA- up to 500 V for current peak value n=30 rated value5.3 kVA- up to 500 V for current peak value n=30 rated value5.3 kVA- up to 500 V for current peak value n=30 rated value11.6 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.6 kVA- up to 500 V for current peak value n=30 rated value15.4 kVA	— at 500 V rated value	11 kW
- at 230 V rated value5.5 kW- at 400 V rated value11 kW- at 500 V rated value11 kW- at 690 V rated value11 kW- at 690 V rated value11 kWoperating power for approx. 200000 operating cycles at AC-44.4 kW• at 400 V rated value7.7 kWoperating apparent power at AC-5a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a8 kVA• up to 500 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a8 kVA• up to 500 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 690 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value12.5 kVA• up to 690 V for current peak value n=30 rated value10.6 kVA• up to 690 V for current meak value n=30 rated value12.5 kVA• up to 690 V for current peak value n=30 rated value12.5 kVA• up to 690 V for current peak value n=30 rated value10.6 kVA• up to 690 V for current maximum11.6 kVA• limited to 1 s switching at zero current maximum13.5 kVA• limited to 10 s switching at zero current maximum12.6 kVA• limited to 10 s switching at zero	— at 690 V rated value	11 kW
at 400 V rated value11 kW at 500 V rated value11 kW at 690 V rated value11 kW at 690 V rated value11 kW at 690 V rated value11 kW• at 400 V rated value4.4 kW• at 690 V rated value4.4 kW• at 690 V rated value7.7 kW• operating apparent power at AC-6a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value8 kVA• up to 690 V for current peak value n=20 rated value17.4 kVA• up to 500 V for current peak value n=20 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 690 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value12.6 kVA• up to 690 V for current peak value n=30 rated value12.5 kVA• up to 690 V for current peak value n=30 rated value200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum12.8 k; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum12.8 k; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum12.8 k; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s s	• at AC-3e	
at 500 V rated value11 kW at 690 V rated value11 kWoperating power for approx. 200000 operating cycles at AC-411 kW• at 400 V rated value4.4 kW• at 690 V rated value7.7 kWoperating apparent power at AC-6a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value15.4 kVA• up to 690 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value12.8 kVA• up to 690 V for current peak value n=30 rated value12.8 kVA• up to 690 V for current peak value n=30 rated value12.8 kVA• up to 690 V for current peak value n=30 rated value12.8 kVA• up to 690 V for current peak value n=30 rated value200 A; Use minimum cross-section acc. to AC-1 rated value• up to 690 V for current peak value n=10 current maximum12.8 k.VA• limited to 1 s switching at zero current maximum21.8 k.VB eminimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum100 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to	— at 230 V rated value	5.5 kW
	— at 400 V rated value	11 kW
operating power for approx. 20000 operating cycles at AC-44.4 kW• at 400 V rated value4.4 kW• at 690 V rated value7.7 kWoperating apparent power at AC-6a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value15.4 kVA• up to 690 V for current peak value n=30 rated value5.3 kVA• up to 230 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value12.5 kVA• up to 600 V for current peak value n=30 rated value12.5 kVA• up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• at ACat AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h	— at 500 V rated value	11 kW
at AC-4A A W• at 400 V rated value4.4 kW• at 690 V rated value7.7 kWoperating apparent power at AC-6a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 690 V for current peak value n=20 rated value15.4 kVA• up to 500 V for current peak value n=20 rated value5.3 kVA• up to 690 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value128 X/A• up to 600 V for current peak value n=30 rated value200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current m	— at 690 V rated value	11 kW
• at 690 V rated value7.7 kWoperating apparent power at AC-6a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 400 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value17.4 kVA• up to 500 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a5.3 kVA• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value12.5 kVA• up to 690 V for current peak value n=30 rated value200 A; Use minimum cross-section acc. to AC-1 rated value• up to 690 V for current peak value n=30 rated value200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum299 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A;		
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operating apparent power at AC-6a5.3 kVA• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 400 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limi		15.4 kVA
• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 400 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state15.5 kVA• limited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum299 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum100 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h		
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>the KVA</li> <li>short-time withstand current in cold operating state</li> <li>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching a</li></ul>		5.3 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 690 V for current peak value n=30 rated value</li> <li>to 60 °C</li> <li>to 40 °C<td></td><td>9.3 kVA</td></li></ul>		9.3 kVA
short-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum1 000 1/h • 1 000 1/h • 750 1/h		11.6 kVA
short-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum1 000 1/h • 1 000 1/h • 750 1/h		15.5 kVA
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum<td>short-time withstand current in cold operating state</td><td></td></li></ul>	short-time withstand current in cold operating state	
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>128 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>106 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1000 1/h</li> <li>at AC-2 maximum</li> <li>750 1/h</li> </ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	375 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value 106 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC5000 1/hoperating frequency • at AC-1 maximum1000 1/hot AC-2 maximum750 1/h	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	299 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
• at AC5 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	106 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	no-load switching frequency	
• at AC-1 maximum         1 000 1/h           • at AC-2 maximum         750 1/h	• at AC	5 000 1/h
• at AC-2 maximum 750 1/h	operating frequency	
	• at AC-1 maximum	1 000 1/h
• at AC-3 maximum 750 1/h	• at AC-2 maximum	750 1/h
	<ul> <li>at AC-3 maximum</li> </ul>	750 1/h

at AC-3e maximum	750 1/h		
• at AC-4 maximum	250 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
<ul> <li>at 50 Hz rated value</li> </ul>	230 V		
• at 60 Hz rated value	230 V		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.85 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	81 VA		
• at 60 Hz	79 VA		
inductive power factor with closing power of the coil			
at 50 Hz	0.72		
• at 50 Hz	0.72		
	0.74		
apparent holding power of magnet coil at AC	10 5 \/A		
• at 50 Hz	10.5 VA		
• at 60 Hz	8.5 VA		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.25		
• at 60 Hz	0.28		
closing delay			
• at AC	8 40 ms		
opening delay			
• at AC	4 16 ms		
arcing time	10 10 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 instantaneous contact	2		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
• at 230 V rated value	6 A		
<ul> <li>at 400 V rated value</li> </ul>	3 A		
• at 500 V rated value	2 A		
• at 690 V rated value	1 A		
operational current at DC-12			
<ul> <li>at 24 V rated value</li> </ul>	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	1A		
at 600 V rated value	0.15 A		
operational 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 80 V rated value     at 110 V rated value	1A		
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 auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
<ul> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> </ul>	21 A		

<ul> <li>at 600 V rated value</li> </ul>	22 A				
yielded mechanical performance [hp]					
<ul> <li>for single-phase AC motor</li> </ul>					
— at 110/120 V rated value	2 hp				
— at 230 V rated value	3 hp				
<ul> <li>for 3-phase AC motor</li> </ul>					
— at 200/208 V rated value	5 hp				
— at 220/230 V rated value	7.5 hp				
— at 460/480 V rated value	15 hp				
— at 575/600 V rated value	20 hp				
contact rating of auxiliary contacts according to UL	A600 / Q600				
Short-circuit protection					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)				
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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 standard mounting rail according to DIN EN 60715				
side-by-side mounting	Yes				
height	85 mm				
width	45 mm				
depth	141 mm				
required spacing					
<ul> <li>with side-by-side mounting</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— 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				
<ul> <li>for auxiliary and control circuit</li> </ul>	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	$2 \times (4 - 2 + 5 - 5 - 5^2)$ $2 \times (2 + 5 - 4 + 5 - 5^2)$				
— solid	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )				
— solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )				
— finely stranded with core end processing	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>				
at AWG cables for main contacts  connectable conductor cross-section for main  contacts	2x (16 12), 2x (14 8)				
contacts	1 10 mm <sup>2</sup>				
solid     stranded	1 10 mm² 1 10 mm²				
stranded					

finely stranded y	with core end processi	a	1 10 mm²				
connectable conduct		-	. 1 10 mm²				
contacts		auxiliary					
<ul> <li>solid or stranded</li> </ul>	b		0.5 2.5 mm	1 <sup>2</sup>			
<ul> <li>finely stranded v</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>		0.5 2.5 mm <sup>2</sup>				
type of connectable	type of connectable conductor cross-sections						
<ul> <li>for auxiliary cont</li> </ul>							
— solid or stra			2x (0.5 1.5	mm²), 2x (0	75 2.5 mm²)		
— finely stran	ded with core end proc	cessing			,75 2.5 mm²)		
-	for auxiliary contacts	5	2x (20 16),				
AWG number as cod	-	luctor cross			,		
section							
<ul> <li>for main contact</li> </ul>	S		16 8				
<ul> <li>for auxiliary conf</li> </ul>	tacts		20 14				
Safety related data							
product function							
•	ccording to IEC 60947	-4-1	Yes				
	operation according to		No				
5-1	opolation according t						
B10 value with high de	emand rate according f	to SN 31920	450 000				
proportion of danger							
<ul> <li>with low demand</li> </ul>	d rate according to SN	31920	40 %				
	nd rate according to SN		73 %				
	failure rate [FIT] with low demand rate according to SN						
	T1 value for proof test interval or service life according to		20 y				
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					
suitability for use							
safety-related switching OFF		Yes					
Certificates/ approvals	-		100	-			
General Product Ap							
General Product App	prova						
SA CSA	CCC	<u>Confirmation</u>	<u>on</u>	۳. ۳	KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity		Test Certificates	Marine / Shipping	
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	l	LA JK	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping						other	
BUREAU		Lloyds Register us	(	RINA	RMRS	<u>Confirmation</u>	
VERITAS							



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=3RT2026-1AL24-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AL24-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AL24-3MA0

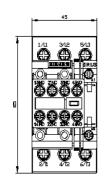
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

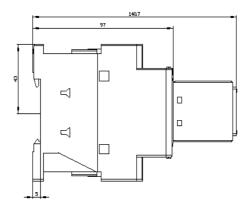
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-1AL24-3MA0&lang=en

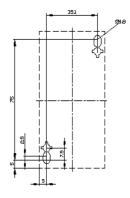
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

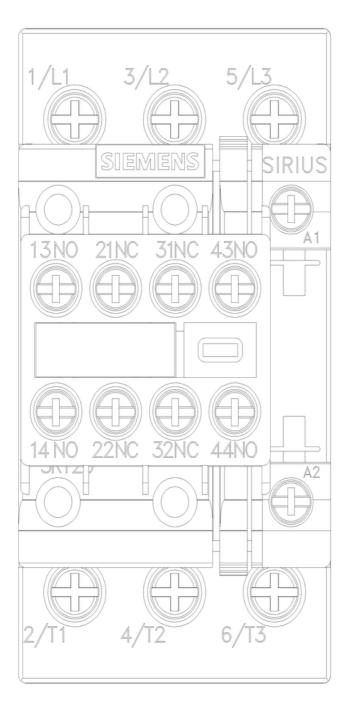
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AL24-3MA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1AL24-3MA0&objecttype=14&gridview=view1









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