## **SIEMENS**

Data sheet 3RT2024-1DB40



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product designation 9 Power contactor product type designation 3RT2  General technical data  size of contactor S0  product extension  • function module for communication No • auxiliary switch Yes  power loss [W] for rated value of the current  • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 5.9 W  insulation voltage  • of main circuit with degree of pollution 3 rated value 690 V  surge voltage resistance • of main circuit rated value 6 kV	
Size of contactor  product extension  function module for communication  auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state  at AC in hot operating state per pole  at AC in hot operating state per pole  without load current share typical  insulation voltage  of main circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  feed of surger voltage resistance	
size of contactor  product extension  • function module for communication  • auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state  • at AC in hot operating state per pole  • at AC in hot operating state per pole  • without load current share typical  insulation voltage  • of main circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value	
product extension  • function module for communication • auxiliary switch  Power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical  insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of surge voltage resistance	
• function module for communication     • auxiliary switch      • auxiliary switch      power loss [W] for rated value of the current      • at AC in hot operating state     • at AC in hot operating state per pole     • at AC in hot operating state per pole     • without load current share typical      • without load current share typical      insulation voltage     • of main circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value      • of auxiliary circuit with degree of pollution 3 rated value      surge voltage resistance	
<ul> <li>auxiliary switch</li> <li>power loss [W] for rated value of the current</li> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>without load current share typical</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>surge voltage resistance</li> </ul>	
power loss [W] for rated value of the current  • at AC in hot operating state  • at AC in hot operating state per pole  • at AC in hot operating state per pole  • without load current share typical  • without load current share typical  insulation voltage  • of main circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value	
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>5.9 W</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>surge voltage resistance</li> </ul>	
<ul> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>surge voltage resistance</li> </ul>	
<ul> <li>without load current share typical</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>surge voltage resistance</li> </ul>	
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>surge voltage resistance</li> </ul>	
of auxiliary circuit with degree of pollution 3 rated value      surge voltage resistance  690 V	
surge voltage resistance	
• of main circuit rated value 6 kV	
• of auxiliary circuit rated value 6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	
shock resistance at rectangular impulse	
• at DC 10g / 5 ms, 7,5g / 10 ms	
shock resistance with sine pulse	
• at DC 15g / 5 ms, 10g / 10 ms	
mechanical service life (operating cycles)	
• of contactor typical 10 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>5 000 000</li> </ul>	
• of the contactor with added auxiliary switch block typical 10 000 000	
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date) 10/01/2009	
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 95 % maximum	
Main circuit	
number of poles for main current circuit 3	

number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	05.4
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
	9 A
— at 690 V rated value	
at AC-4 at 400 V rated value     at AC-5 aug to 600 V rated value	12.5 A
at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	11.3 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	5.5 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 110 V rated value  — at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	05.4
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

	— at 24 V rated value	20 A
	— at 60 V rated value	5 A
	— 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-5     — at 24 V rated value     — at 290 V rated value     — at 490 V rated value     — at 500 V rated value     — at 490 V rated value     — at 500 V rated va	— at 440 V rated value	0.09 A
	— 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	35 A
	— at 60 V rated value	35 A
	— at 110 V rated value	15 A
at 600 V rated value	— at 220 V rated value	3 A
- with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 110 V rated value - at 22 V rated value - at 22 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 500 V rated value - at 500 V rated value - at 600 V rated value - at 500 V rated value - at 600 V rated value - at 600 V rated value - at 500 V rated value - at 600 V rated value	— 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>	
	·	35 A
at AC-2 at 400 V rated value   5.5 kW     at AC-3   at 300 V rated value   5.5 kW     at AC-3   at 300 V rated value   5.5 kW     at AC-3   at 400 V rated value   5.5 kW     at 400 V rated value   5.5 kW     at 600 V rated value   5.5 kW     at 600 V rated value   5.5 kW     at AC-3e   at 300 V rated value   5.5 kW     at AC-3e   at 300 V rated value   5.5 kW     at AC-3e   at 300 V rated value   5.5 kW     at 600 V rated value   5.5 kW     at 500 V rated value   5.5 kW     at 600 V rated value   5.5 kW     at 600 V rated value   5.5 kW     at 400 V rated value   6.5 kW     at 400 V rated value   4.6 kW     operating power for approx. 200000 operating cycles at AC-4     at 400 V rated value   4.5 kW     at 680 V rated value   4.5 kW     operating apparent power at AC-6a     up to 400 V for current peak value n=20 rated value   9.8 kVA     up to 500 V for current peak value n=20 rated value   9.8 kVA     up to 500 V for current peak value n=20 rated value   9.8 kVA     up to 500 V for current peak value n=30 rated value   9.8 kVA     up to 500 V for current peak value n=30 rated value   5.2 kVA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to 500 V for current peak value n=30 rated value   6.5 kWA     up to		
at AC-2 at 400 V rated value		
• at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value — at 600 V rated value — up to 230 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated va		0.071
■ at AC-3     ■ at 230 V rated value     ■ at 40 V rated value     ■ at 40 V rated value     ■ at 80-3e     ■ at 80-3e     ■ at 80-3e     ■ at 230 V rated value     ■ at 40-3e     ■ at 230 V rated value     ■ at 40 V rated value     ■ at 40 V rated value     ■ at 690 V rourent peak value n=20 rated value     ■ up to 230 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 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 690 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 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 690 V for current peak value n=30 rated value     ■ to 690 V for current peak value n=30 rated value     ■ to 690 V for current peak value n=30 rated value     ■ to 690 V for current peak value n=30 rated value     ■ to 690 V for current peak value n=30 rated value     ■ to 690 V for current peak value n=30 rated value     ■ to 65 kWA      ■ to 67 kW		5 5 P/W
- at 230 V rated value		U.U NYY
at 400 V rated value		2 144/
- at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW - at 4AC-3e - at 230 V rated value 5.5 kW - at 400 V rated value 5.5 kW - at 690 V rated value 7.5 kW  - at 690 V rated value 7.5 kW  - at 690 V rated value 7.5 kW  - at 690 V rated value 7.5 kW  - at 690 V rated value 8.6 kW  - at 690 V rated value 8.6 kW  - at 690 V rated value 8.6 kW  - at 690 V rated value 9.20 rated value 9.20 rated value 9.20 kW  - up to 230 V for current peak value n=20 rated value 9.8 kVA  - up to 500 V for current peak value n=20 rated value 9.8 kVA  - up to 590 V for current peak value n=20 rated value 9.8 kVA  - up to 590 V for current peak value n=30 rated value 9.8 kVA  - up to 500 V for current peak value n=30 rated value 9.		
at AC-3e     at AC-3e     at 230 V rated value     at AC-3e     at 230 V rated value     at 400 V rated value     at 50 V rated value     at 690 V rated value     at 690 V rated value     at 690 V rated value     operating power for approx. 200000 operating cycles at AC-4     at 400 V rated value     at 690 V rot current peak value n=20 rated value     up to 230 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 690 V for current peak value n=30 rated value     up to 400 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 500 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V for current peak value n=30 rated value     vup to 690 V f		
- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 690 V rated value - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=20 rated value - up to 590 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 590 V for current peak value n=30 rated value - up to 590 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 r		7.5 KW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 690 V rated value • up to 230 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 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 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 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 3 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s		
- at 500 V rated value - at 690 V rated value		
- at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  * at 400 V rated value  at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value  oup to 690 V for current peak value n=20 rated value  oup to 690 V for current peak value n=20 rated value  oup to 690 V for current peak value n=20 rated value  oup to 690 V for current peak value n=30 rated value  oup to 690 V for current peak value n=30 rated value  oup to 500 V for current peak value n=30 rated value  oup to 500 V for current peak value n=30 rated value  oup to 500 V for current peak value n=30 rated value  oup to 500 V for current peak value n=30 rated value  oup to 500 V for current peak value n=30 rated value  oup to 500 V for current peak value n=30 rated value  oup to 690 V for current peak value n=30 ra		
operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 690 V rated value • 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 500 V for current peak value n=30 rated value • up to 500 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • 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	— at 500 V rated value	5.5 kW
at 400 V rated value at 690 V rated value 2.6 kW operating apparent power at AC-6a up to 230 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 690 V for current peak value n=20 rated value up to 690 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 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 690 V for current peak value n=3		7.5 kW
at 400 V rated value at 690 V rated value at 690 V rated value  operating apparent power 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 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power 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 sup to 690 V for current peak value n=30 rated value finited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum alimited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  alim		
at 690 V rated value  operating apparent power 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 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value oup 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 690 V for current peak value n=30 rated value bup to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value bup to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  ilimited to 1 s switching at zero current maximum limited to 5 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 limited to 60 s switching at zero current maximum  at AC-1 rated value  limited to 60 s switching at zero current maximum  at AC-2 maximum  1 000 1/h  at AC-3 maximum  1 000 1/h		2.6 kM
operating apparent power 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 500 V for current peak value n=20 rated value • up to 690 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 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • but time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  100 at AC-1 rated value  1500 1/h • at AC-2 maximum  1 000 1/h • at AC-3 maximum  1 000 1/h • at AC-3 maximum  1 000 1/h • at AC-3 maximum  1 000 1/h		
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 690 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 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 short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 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 limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value 105 A; Use minimum cross-section acc. to AC-1 rated value 106 A; Use minimum cross-section acc. to AC-1 rated value 107 A; Use minimum cross-section acc. to AC-1 rated value 108 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 100 A; Use minimum cross-section acc. to AC-1 rated value 106 A; Use minimum cross-section acc. to AC-1 rated value 108 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 100 A; Use minimum cross-section acc. to AC-1 rated value 107 A; Use minimum cross-section acc. to AC-1 rated value		4.0 KVV
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 690 V for current peak value n=20 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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 10 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 limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 105 A; Use minimum cross-section acc. to AC-1 rated value 1500 1/h  operating frequency at AC-1 maximum 1 000 1/h AC-2 maximum 1 000 1/h AC-3 maximum 1 000 1/h 1		4.5.14/4
up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 10.7 kVA  operating apparent power 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 690 V for current peak value n=30 rated value up to 690 V for current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum lob A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum lob A; Use minimum cross-section acc. to AC-1 rated value  limited to 60 s switching at zero current maximum lob A; Use minimum cross-section acc. to AC-1 rated value  limited to 60 s switching at zero current maximum lob A; Use minimum cross-section acc. to AC-1 rated value  limited to 60 s switching at zero current maximum lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to AC-1 rated value  lob A; Use minimum cross-section acc. to		
up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a      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 690 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  short-time withstand current in cold operating state up to 40 °C  imited to 1 s switching at zero current maximum  imited to 1 s switching at zero current maximum  imited to 10 s switching at zero current maximum  imited to 30 s switching at zero current maximum  imited to 60 s switching at zero current maximum  imited t		
operating apparent power 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  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 3 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  olimited to 60 s switching at zero current maximum  at DC  1500 1/h  operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum		
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• 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 690 V for current in cold operating state up to 40 °C      • limited to 1 s switching at zero current maximum     • limited to 5 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     • limite		0.14
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• up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 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  • limited to 60 s switching at zero current maximum  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value	·	
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 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  • limited to 60 s switching at zero current maximum  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  105 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value  106 A; Use minimum cross-section acc. to AC-1 rated value		
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<ul> <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 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>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>lio 6 A; Use minimum cross-section acc. to AC-1 rated value<!--</td--><td></td><td></td></li></ul>		
<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>no-load switching frequency</li> <li>at DC</li> <li>1 500 1/h</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>		240 A. Hao minimum areas activity and to A.C. 4 and the
<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>no-load switching frequency</li> <li>at DC</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>1 000 1/h</li> </ul>		
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<ul> <li>● limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>● at DC</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>● at AC-1 maximum</li> <li>● at AC-2 maximum</li> <li>● at AC-3 maximum</li> </ul>	-	
no-load switching frequency <ul> <li>at DC</li> <li>1 500 1/h</li> </ul> operating frequency <ul> <li>at AC-1 maximum</li> <li>1 000 1/h</li> <li>at AC-2 maximum</li> <li>1 000 1/h</li> <li>at AC-3 maximum</li> <li>1 000 1/h</li> <li>at AC-3e maximum</li> <li>1 000 1/h</li> </ul>	-	
● at DC  operating frequency  ● at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum		105 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       1 000 1/h         • at AC-3 maximum       1 000 1/h         • at AC-3e maximum       1 000 1/h		
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>		1 500 1/h
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>		
<ul> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>1 000 1/h</li> <li>1 000 1/h</li> </ul>		
• at AC-3e maximum 1 000 1/h	• at AC-2 maximum	1 000 1/h
	• at AC-3 maximum	1 000 1/h
• at AC-4 maximum 300 1/h	• at AC-3e maximum	1 000 1/h
	• at AC-4 maximum	300 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
design of the surge suppressor	with varistor
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
• at DC	15 18 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 instantaneous	2
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
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
at 600 V rated value	0.15 A
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 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
and the same and t	

for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
• side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	151 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
• for live parts	
— 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
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary contacts	0.5 0.5
solid or stranded	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	0, (0.5 4.5 mm²) 0, (0.75 0.5 mm²)
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts  AWG number of and connectable conductor group	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	16 8
for auxiliary contacts	20 14
Safety related data	
product function	
product function  • mirror contact according to IEC 60947-4-1	Yes
mirror contact according to IEC 60947-4-1	Yes No
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
mirror contact according to IEC 60947-4-1	

73 %
100 FIT
20 a
IP20
finger-safe, for vertical contact from the front
Yes
Yes

Certificates/ approvals

## **General Product Approval**





Confirmation



**KC** 



EMC

**Functional** Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Cer**tificate** 





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

## Marine / Shipping













other

Railway

**Dangerous Good** 

Environment

Confirmation



Vibration and Shock

**Transport Information** 

**Environmental Confirmations** 

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

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2024-1DB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1DB40

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

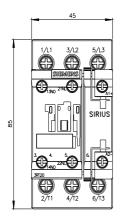
https://support.industry.siemens.com/cs/ww/en/ps/3RT202

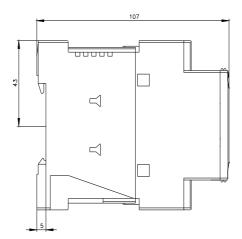
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2024-1DB40&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2024-1DB40&lang=en</a>

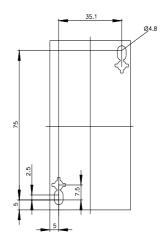
Characteristic: Tripping characteristics, I2t, Let-through current

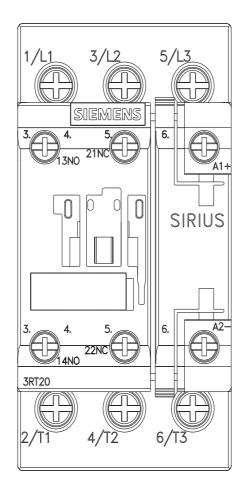
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1DB40/char

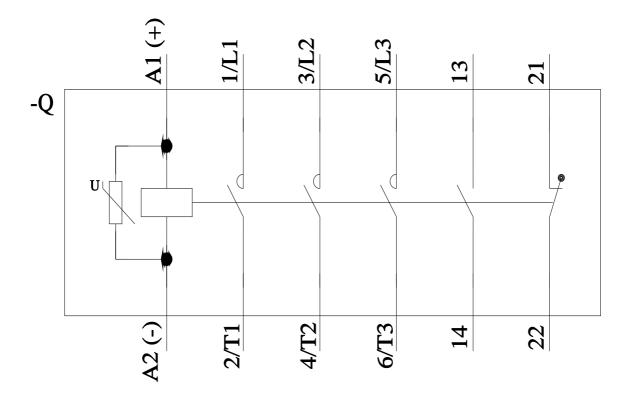
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1DB40&objecttype=14&gridview=view1











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