## **SIEMENS**

Data sheet 3RT2026-2KF40



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 110 V DC, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS		
product designation	Coupling contactor		
product type designation	3RT2		
General technical data	General technical data		
size of contactor	S0		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
<ul> <li>auxiliary switch</li> </ul>	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>	4.5 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 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)			
<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			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
<ul> <li>during storage</li> </ul>	-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
operating voltage	number of NO contacts for main contacts	
e at AC-3 rated value maximum operational current at AC-1 at 400 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — at AC-3 — at 400 V rated value — at 500 V rated value — at 600 V rated value — at AC-5 up 10 400 V rated value — up 10 230 V for current peak value n=20 rated value — up 10 500 V for current peak value n=20 rated value — up 10 500 V for current peak value n=20 rated value — up 10 500 V for current peak value n=30 rated value — up 10 500 V for		3
at AC-3e rated value maximum     operational current     at AC-1 at 400 V at ambient temperature 40 °C     rated value     at AC-1     — up to 590 V at ambient temperature 40 °C     rated value     at AC-1     — up to 590 V at ambient temperature 40 °C     rated value     — up to 590 V at ambient temperature 60 °C     rated value     at AC-3     — at 500 V rated value     at AC-3     — at 500 V rated value     at 500 V rated value     at AC-3     — at 500 V rated value     at AC-3     — at 500 V rated value     at AC-3 up to 590 V rated value     at AC-5 up to 590 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 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=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 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 v		690 V
operational current		
** at AC-1 at 400 V at ambient temperature 40 °C rated value *** at AC-1   — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 590 V at ambient temperature 60 °C rated value — at 690 V rated value — 18 A — at 500 V rated value — 18 A — at 500 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 18 A — at 690 V rated value — 20 rated value — 19 D 6 500 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 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=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 400 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 400 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 400 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 400 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 400 V for current peak value n=30 rated value — up to 400 V		030 V
— up to 800 V at ambient temperature 40 °C rated value — up to 800 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value • at 800 V rated value • at 600 V rated value • at AC-5a up to 800 V rated value • at AC-5a up to 800 V rated value • at AC-6a — up to 200 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 600 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 — 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 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 400 V for current peak value n=30 rated value — at 600 V rated value — at	<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	40 A
rated value — up to 600 V at ambient temperature 60 °C rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 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 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=30 rated value — up to 500 V for curr	• at AC-1	
rated value	rated value	
	rated value	35 A
at 500 V rated value		25 /
at 600 V rated value		
■ at AG-3e     — at 400 V rated value     — at 500 V rated value     — at 690 V rated value     ■ at AG-3d and V rated value     ■ at AG-5d up to 690 V rated value     ■ at AG-5d up to 690 V rated value     ■ at AG-5d up to 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 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 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 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     — 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     — 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     — 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 for approx.      200 V for current for approx.      30 A		
		13 A
at 500 V rated value		25 Δ
— at 680 V rated value  • at AC-4 at 40 V rated value  • at AC-5 au p to 690 V rated value  • at AC-5a  • at AC-5a  — 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=20 rated value  — up to 230 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 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  — 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  — 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  — at 140 V rated value  • at 140 V rated value  • at 140 V rated value  — at 600 V rated value  — at 140 V rated value  — at 110 V rated value		
■ at AC-4 at 400 V rated value     ■ at AC-5s up to 690 V rated value     ■ at AC-5s up to 400 V rated value     ■ at AC-5s up to 400 V rated value     ■ at AC-5s up to 400 V for current peak value n=20 rated value     ■ up to 330 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=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 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     ■ 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     ■ at 600 V rated value     ■ at 110 V rated value     ■ at 120 V rated value     ■ at 220 V rated value     ■ at 220 V rated value     ■ at 440 V rated value     ■ at 220 V rated		
• at AC-5a up to 690 V rated value • at AC-5b up to 200 V rated value • at AC-5b up to 200 V for current peak value n=20 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 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 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 — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value		
at AC-5b up to 400 V rated value     at AC-5b up to 400 V rated value     al AC-6a     all pto 500 V for current peak value n=20 rated value     all pto 690 V for current peak value n=20 rated value     all pto 590 V for current peak value n=20 rated value     all pto 590 V for current peak value n=30 rated value     all pto 590 V for current peak value n=30 rated value     all pto 590 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current peak value n=30 rated value     all pto 690 V for current path value n=30 rated value     all pto 690 V for current path value n=35 A     all 10 V rated value     all 24 V rated value     all 24 V rated value     all 440 V		
• at AC-6a		
up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 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 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 up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value at 400 V rated value at 24 V rated value at 24 V rated value at 220 V rated value		
value	— up to 230 V for current peak value n=20 rated	20.2 A
value         — up to 690 V for current peak value n=20 rated value         • 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 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         — up to 400 V rated value and to current for approx. 200000 operating cycles at AC-4         • at 400 V rated value         • at 400 V rated value         • at 1 current path at DC-1         — at 24 V rated value         — at 110 V rated value         — at 220 V rated value         — at 600 V rated value         — at 600 V rated value         — at 600 V rated value         — at 24 V rated value         — at 110 V rated value         — at 24 V rated value         — at 100 V rated value         — at 220 V rated value         — at 400 V rated value         — at 440 V rated value         — at 600 V rated value         — at 600 V rated value         — at 600 V rated value         — at 220 V rated value         — at 24 V rated value         — at 25 V rated value         — at 25 V rated value         — at 25 V r		20.2 A
• 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 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  — up to 690 V for current peak value n=30 rated value  operational current for approx. 200000 operating cycles at AC-4  ■ at 400 V rated value ■ at 690 V rated value ■ at 110 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 22 V rated value — at 24 V rated value — at 24 V rated value — at 22 V rated value — at 24 V rated value — at 27 V rated value — at 28 V rated value — at 29 V rated value — at 20 V rated value — at 40 V rated value — at 20 V rated value — at 20 V rated value — at 40 V rated value — at 40 V rated value — at 410 V rated value — at 40 V rated value — 35 A — at 220 V rated value — at 40 V rated value — 35 A — at 220 V rated value — 35 A — at 220 V rated value — 35 A — at 220 V rated value — 35 A — at 220 V rated value — 35 A — 35 A — 35 A — 36 A — 37 A — 37 A — 38	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 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 - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 10 mm²  35 A - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 110 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 220 V rated value - at 35 A - at 220 V rated value - at 600 V rated value - at 110 V rated value - at 220 V rated value	value	12.9 A
value       13.5 A         — up to 500 V for current peak value n=30 rated value       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       10 mm²         operational current for approx. 200000 operating cycles at AC-4       9 A         • at 400 V rated value       9 A         • at 690 V rated value       9 A         • at 1 current path at DC-1       35 A         — at 24 V rated value       4.5 A         — at 120 V rated value       1 A         — at 220 V rated value       0.4 A         — at 600 V rated value       0.25 A         • with 2 current paths in series at DC-1       35 A         — at 220 V rated value       35 A         — at 440 V rated value       5 A         — at 220 V rated value       1 A         — at 600 V rated value       1 A         — at 440 V rated value       35 A         — at 24 V rated value       1 A         — at 220 V rated value       35 A         — at 440 V rated value       35 A         — at 24 V rated value       35 A         — at 24 V rated value       35 A         — at 24 V rated value       35 A         — at 1110 V rated	— up to 230 V for current peak value n=30 rated	13.5 A
value         — up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4         • at 400 V rated value         • at 690 V rated value         • at 1 current path at DC-1         — at 24 V rated value         — at 110 V rated value         — at 220 V rated value         — at 400 V rated value         — at 110 V rated value         — at 210 V rated value         — at 220 V rated value         — at 24 V rated value         — at 24 V rated value         — at 24 V rated value         — at 25 V rated value         — at 26 V rated value         — at 27 V rated value         — at 28 V rated value         — at 29 V rated value         — at 210 V rated value         — at 24 V rated value         — at 27 V rated value         — at 28 V rated value         — at 29 V rated value         — at 29 V rated value         — at 440 V rated value         — at 440 V rated value         — at 400 V rated value         — at 200 V rated value         — at 200 V rated value         — at 200 V rated value         — at 24 V rated value         — at 25 V rated value	value	
value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  • at 1 current path at DC-1  — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value — at 20 V rated value — at 20 V rated value — at 220 V rated value — at 24 V rated value — at 440 V rated value — at 500 V rated value — at 20 V	value	
operational current for approx. 200000 operating 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 1 A — at 440 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 110 V rated value 35 A — at 20 V rated value 35 A — at 20 V rated value 35 A  — at 20 V rated value 35 A — at 24 V rated value 5 A — at 440 V rated value 5 A — at 24 V rated value 5 A — at 24 V rated value 1 A — at 600 V rated value 5 A — at 24 V rated value 35 A  • with 3 current paths in series at DC-1 — at 24 V rated value 35 A  • at 110 V rated value 35 A — at 220 V rated value 35 A  - at 220 V rated value 35 A	value	
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>9 A</li> <li>operational current</li> <li>at 1 current path at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 24 V rated value</li> <li>— at 220 V rated value</li> </ul>		
• 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 1 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 110 V rated value 35 A — at 110 V rated value 5 A — at 220 V rated value 1 A — at 600 V rated value 1 A — at 440 V rated value 35 A  - at 220 V rated value 1 A — at 440 V rated value 35 A  - at 110 V rated value 35 A  - at 440 V rated value 35 A  - at 220 V rated value 35 A  • with 3 current paths in series at DC-1 — at 24 V rated value 35 A  - at 110 V rated value 35 A  - at 220 V rated value 35 A  - at 220 V rated value 35 A  - at 220 V rated value 35 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 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 110 V rated value 5 A  — at 220 V rated value 1 A  — at 600 V rated value 35 A  — 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  — at 24 V rated value 35 A  — at 110 V rated value 35 A  • at 110 V rated value 35 A  • at 110 V rated value 35 A  — at 220 V rated value 35 A  — at 220 V rated value 35 A  — at 220 V rated value 35 A		9 A
- at 24 V rated value 35 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 110 V rated value 5 A - at 220 V rated value 5 A - at 440 V rated value 1 A - at 600 V rated value 1 A - at 600 V rated value 35 A - at 24 V rated value 35 A - at 220 V rated value 35 A - at 220 V rated value 35 A - at 220 V rated value 35 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 110 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 - at 24 V rated value 35 A - at 120 V rated value 35 A - at 220 V rated value 35 A - at 220 V rated value 35 A - at 24 V rated value 35 A - at 24 V rated value 35 A - at 220 V rated value 35 A - at 220 V rated value 35 A		05.4
- at 220 V rated value		
- at 440 V rated value 0.25 A  • with 2 current paths in series at DC-1  - at 24 V rated value 35 A  - at 110 V rated value 5 A  - at 220 V rated value 1 A  - at 600 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  - at 24 V rated value 35 A  - at 110 V rated value 35 A  - at 220 V rated value 35 A  - at 220 V rated value 35 A  - at 220 V rated value 35 A		
<ul> <li>— at 600 V rated value</li> <li>● with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>■ with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 120 V rated value</li> <li>— at 220 V rated value</li> </ul>		
<ul> <li>with 2 current paths in series at DC-1         <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li></ul></li></ul>		
- at 24 V rated value 35 A - at 110 V rated value 5 A - 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 - at 24 V rated value 35 A - at 110 V rated value 35 A - at 220 V rated value 35 A		U.25 A
- at 110 V rated value 35 A - 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 - at 24 V rated value 35 A - at 110 V rated value 35 A - at 220 V rated value 35 A		25.4
- 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 - at 24 V rated value 35 A - at 110 V rated value 35 A - at 220 V rated value 35 A		
<ul> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>35 A</li> <li>— at 220 V rated value</li> <li>35 A</li> </ul>		
<ul> <li>— at 600 V rated value</li> <li>● with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>35 A</li> <li>— at 220 V rated value</li> <li>35 A</li> </ul>		
<ul> <li>with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>35 A</li> <li>— 35 A</li> </ul>		
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>35 A</li> <li>35 A</li> </ul>		U.U A
<ul> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>35 A</li> <li>35 A</li> </ul>		35 Δ
— at 220 V rated value 35 A		

at 600 V rated value	1 4 4
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	20. 4
— at 24 V rated value	20 A
— at 220 V rated value	1 A 0.09 A
— 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> <li>— at 24 V rated value</li> </ul>	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	0.1071
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
at AC-2 at 400 V rated value	11 kW
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.4 kW
at 400 V rated value     at 690 V rated value	7.7 kW
operating apparent power at AC-6a	1.1 1/44
up to 230 V for current peak value n=20 rated value	8 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	17.4 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	15.4 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	5.3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	9.3 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	11.6 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	15.5 kVA
short-time withstand current in cold operating state	
up to 40 °C	
limited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 5 s switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum     Ilmited to 20 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 30 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum	144 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum  no-load switching frequency	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency  • at DC	1 500 1/h
operating frequency	1 000 1/11
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	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	DC
control supply voltage at DC	
• rated value	110 V
operating range factor control supply voltage rated	
. 0 0	

value of magnet coil at DC	
• initial value	0.7
full-scale value	1.25
design of the surge suppressor	with varistor
closing power of magnet coil at DC	4.5 W
holding power of magnet coil at DC	4.5 W
closing delay	
• at DC	52 270 ms
opening delay	
• at DC	19 21 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	1
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
<ul> <li>at 600 V rated value</li> </ul>	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul><li>at 60 V rated value</li></ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <li>at 600 V rated value</li> </ul>	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <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>	
<ul> <li>— at 110/120 V rated value</li> </ul>	2 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
<ul> <li>— at 200/208 V rated value</li> </ul>	5 hp
<ul> <li>at 220/230 V rated value</li> </ul>	7.5 hp
<ul> <li>at 460/480 V rated value</li> </ul>	15 hp
<ul> <li>at 575/600 V rated value</li> </ul>	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
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,
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	80kA) gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
motanation/ mounting/ difficusions	

mounting position	1/ 100° rotation possible on vertical mounting ourfoce; can be tilted
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	102 mm
width	45 mm
depth	107 mm
required spacing	107 111111
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— 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	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	opining type terminate
• for main contacts	
— solid	2x (1 10 mm²)
— solid or stranded	2x (1 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
finely stranded without core end processing	2x (1 6 mm²)
at AWG cables for main contacts	2x (18 8)
connectable conductor cross-section for main	· · · ·
contacts	
• solid	1 10 mm²
<ul><li>stranded</li></ul>	1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	1 6 mm²
connectable conductor cross-section for auxiliary	
contacts	
solid or stranded     finally stranded with case and processing	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts      colid or stranded	2v (0 F 2 F mm²)
— solid or stranded	2x (0.5 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross	2x (20 14)
section	
for main contacts	18 8
for auxiliary contacts	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
s ss.id idea doording to oil o lozo	

with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 21020

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

73 % 100 FIT

20 y

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination
Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 



Confirmation



Vibration and Shock

Transport Information

## Further information

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=3RT2026-2KF40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2KF40

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2KF40

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

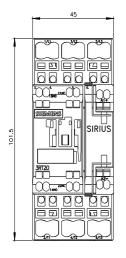
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-2KF40&lang=en

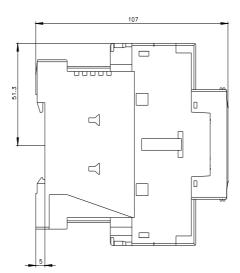
Characteristic: Tripping characteristics, I2t, Let-through current

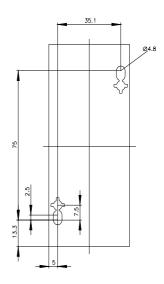
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2KF40/char

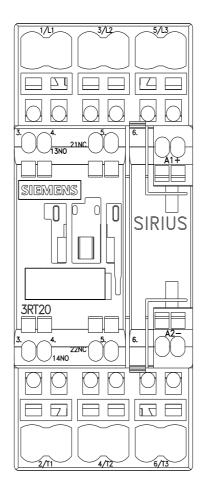
Further characteristics (e.g. electrical endurance, switching frequency)

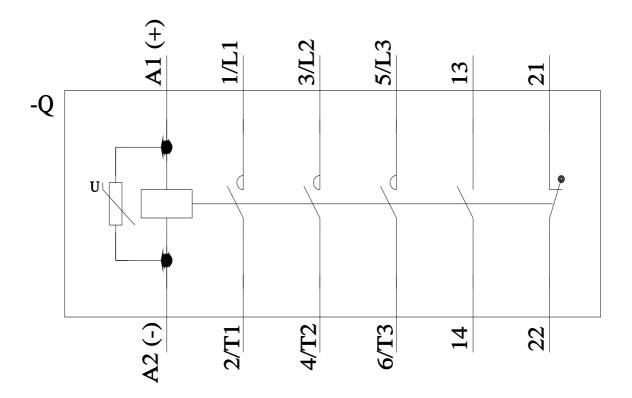
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2KF40&objecttype=14&gridview=view1











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