## SIEMENS

## Data sheet

## 3RT2024-1AC20



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

4/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	2 W
type of calculation of power loss depending on pole	quadratic
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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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
Weight	0.406 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	74.2 kg
global warming potential [CO2 eq] during manufacturing	1.9 kg
global warming potential [CO2 eq] during operation	72.4 kg
global warming potential [CO2 eq] after end of life	-0.117 kg
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	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	12.4
— at 400 V rated value	12 A
— at 500 V rated value	12 A
<ul> <li>— at 690 V rated value</li> <li>• at AC-3e</li> </ul>	A G
• at 400 V rated value	12 A
— at 500 V rated value	12 A 12 A
— at 690 V rated value	9 A
at AC-4 at 400 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
— up to 500 V for current peak value n=20 rated value	11.3 A
— up to 690 V for current peak value n=20 rated value	9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 690 V for current peak value n=30 rated value	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	1A
— 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 220 V rated value	5 A 1 A
— at 440 V rated value	
— at 600 V rated value	0.8 A

- m 22V rade value35 A- m 45 V rade value35 A- m 45 V rade value35 A- m 42 V rade value35 A- m 42 V rade value35 A- m 42 V rade value28 A- m 45 V rade value28 A- m 45 V rade value29 A- m 45 V rade value20 A- m 45 V rade value20 A- m 45 V rade value0.09 A- m 45 V rade value0.01 A- m 45 V rade value0.01 A- m 45 V rade value0.02 T A- m 45 V rade value0.04 A- m 45 V rade value0.05 A- m 45 V rade value </th <th><ul> <li>with 3 current paths in series at DC-1</li> </ul></th> <th></th>	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
- aft 80 v raids value35 Å- aft 80 v raids value35 Å- aft 80 v raids value35 Å- aft 80 v raids value20 Å- aft 80 v raids value14 Å- aft 80 v raids value20 Å- aft 80 v raids value005 Å- aft 80 v raids value006 Å </td <td>-</td> <td>35 A</td>	-	35 A
<ul> <li></li></ul>		
- all AU visited value29 A- all SU Visited value14- all SU Visited value20 A- all SU Visited value35 A- all SU Visited value20 A- all SU Visited value35 A- all SU Visited v		
• at 1 current path a1C-3 a1C-5- at 24 V raids value5.4- at 250 V raids value0.94- at 220 V raids value0.96- at 400 V raids value0.97- at 400 V raids value0.51 W-		
	-	20 A
- at 440 Y rated value0.09 A- at 600 Y rated value0.09 A- at 24 Y rated value35 A- at 24 Y rated value35 A- at 24 V rated value15 A- at 10 V rated value15 A- at 440 V rated value0.18 A- at 440 V rated value0.6 A- at 20 V rated value0.6 A- at 20 V rated value0.6 A- at 20 V rated value0.5 A- at 420 V rated value0.5 A- at 420 V rated value0.6 A- at 420 V rated value0.6 A- at 320 V rated value0.5 KW- at 320 V rated value5 KW- at 600 V rated value5 KW- at 600 V rated value6 K KA- at 600 V rated value6 K KA- at 600 V rated value7 K W- at 600 V rated value6 K KA- at 600 V rated value7 K KA- at 600 V rated value7 K KA- at 600 V rated value7 K KA- at 600 V rated value8 K/A <trr>- at 600 V for current pack value n=</trr>	— at 60 V rated value	5 A
	— at 220 V rated value	1 A
• with 2 current pairs in series at DC-3 at DC-5- at 24 V rated value35 A- at 10 V rated value35 A- at 110 V rated value36 A- at 200 V rated value027 A- at 240 V rated value027 A- at 240 V rated value016 A- at 240 V rated value35 A- at 240 V rated value06 A- at 240 V rated value05 A- at 240 V rated value55 KW- at 240 V rated value75 KW- at 240 V rated value75 KW- at 250 V fract value75 KW- at 260 V rated value75 KW	— 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 440 V rated value     0.27 Å       - at 600 V rated value     0.16 Å       - at 600 V rated value     35 Å       - at 60 V rated value     35 Å       - at 60 V rated value     35 Å       - at 60 V rated value     36 Å       - at 100 V rated value     0.6 Å       - at 400 V rated value     0.6 Å       - at 200 V rated value     0.6 Å       - at 200 V rated value     0.6 Å       - at 200 V rated value     5.5 kW       - at 600 V rated value     5.5 kW       - at 600 V rated value     5.5 kW       - at 600 V rated value     3.6 W       - at 230 V rated value     3.6 W       - at 600 V rated value     3.6 W       -	— 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</li> <li>at 24 V rited value</li> <li>35 A</li> <li>at 100 V rited value</li> <li>35 A</li> <li>at 110 V rated value</li> <li>35 A</li> <li>at 220 V rated value</li> <li>06 A</li> <li>at 400 V rated value</li> <li>06 A</li> <li>at 400 V rated value</li> <li>06 A</li> <li>at 400 V rated value</li> <li>55 KW</li> <li>at 630 V rated value</li> <li>50 V rated value<td>— at 440 V rated value</td><td>0.27 A</td></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	35 A
	— at 60 V rated value	35 A
	— at 110 V rated value	35 A
	— at 220 V rated value	10 A
operating powerat AC:3- at 230 V rated value3 kW- at 400 V rated value5.5 kW- at 500 V rated value5.5 kW- at 690 V rated value7.5 kW- at 230 V rated value7.5 kW- at 230 V rated value3 kW- at 230 V rated value3 kW- at 400 V rated value5.5 kW- at 230 V rated value3 kW- at 600 V rated value5.5 kW- at 600 V rated value7.5 kWoperating power for approx. 20000 operating cycles at AC-4• at 400 V rated value2.6 kW• at 600 V rated value4.5 kVA• up to 200 V for current peak value n=20 rated value7.8 kVA• up to 400 V for current peak value n=20 rated value9.8 kVA• up to 500 V for current peak value n=20 rated value9.8 kVA• up to 230 V for current peak value n=30 rated value3 kVA• up to 230 V for current peak value n=30 rated value3 kVA• up to 630 V for current peak value n=30 rated value5 kVA• up to 500 V for current peak value n=30 rated value6 kVA• up to 630 V for current peak value n=30 rated value6 kVA• up to 630 V for current peak value n=30 rated value6 kVA• up to 630 V for current peak value n=30 rated value6 kVA• up to 630 V for current peak value n=30 rated value6 kVA• up to 630 V for current peak value n=30 rated value6 kVA• up t	— at 440 V rated value	0.6 A
• at AC-3SKW- at 230 V rated value3 kW- at 400 V rated value5.5 kW- at 690 V rated value5.5 kW- at 690 V rated value7.5 kW- at 230 V rated value3 kW- at 200 V rated value5.5 kW- at 400 V rated value5.5 kW- at 400 V rated value5.5 kW- at 500 V rated value5.5 kW- at 690 V rated value2.6 kW- at 690 V rated value2.6 kW• at 690 V rated value4.6 kWoperating power for approx. 200000 operating cycles at AC-4• at 690 V rated value7.8 kVA• up to 230 V for current peak value n=20 rated value7.8 kVA• up to 500 V for current peak value n=20 rated value9.8 kVA• up to 500 V for current peak value n=20 rated value9.8 kVA• up to 230 V for current peak value n=20 rated value3.8 kVA• up to 230 V for current peak value n=30 rated value9.8 kVA• up to 230 V for current peak value n=30 rated value3.8 kVA• up to 230 V for current peak value n=30 rated value3.8 kVA• up to 500 V for current peak value n=30 rated value5.2 kVA• up to 500 V for current peak value n=30 rated value3.8 kVA• up to 500 V for current peak value n=30 rated value3.8 kVA• up to 500 V for current peak value n=30 rated value3.8 kVA• up to 500 V for current		0.6 A
at 400 V rated value5.5 kW at 500 V rated value5.5 kW at 600 V rated value5.5 kW at 230 V rated value3 kW at 230 V rated value3 kW at 400 V rated value5.5 kW at 630 V rated value5.6 kW at 630 V rated value6.6 kW at 630 V rated value4.6 kW at 630 V rated value -20 rated value7.8 kVA at 630 V for current peak value n=20 rated value8.8 kVA up to 530 V for current peak value n=20 rated value9.8 kVA up to 530 V for current peak value n=30 rated value5.5 kW up to 530 V for current peak value n=30 rated value5.6 kW up to 530 V for current peak value n=30 rated value5.6 kVA up to 530 V for current peak value n=30 rated value5.6 kVA up to 530 V for current peak value n=30 rated value5.6 kVA up to 530 V for current peak value n=30 rated value5.6 kVA up to 530 V for current peak value n=30 rated value5.6 kVA up to 530 V for current peak value n=30 rated value5.0 kVA up to 530 V for current peak value n=30 rated value5.6 kVA up to 530 V for current peak value n=30 rated value5.0 kVA up to 530 V for current peak value n=30 rated value5.0 kVA up to 530 V for current peak value n=30 rated value5.0 kVA up to 530 V for current peak value n=30 rated value <td< td=""><td></td><td></td></td<>		
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- at 400 V rated value55 kW- at 500 V rated value55 kW- at 690 V rated value75 kWoperating power for approx. 200000 operating cycles at AC at 400 V rated value2.6 kW- at 690 V rated value2.6 kW- at 690 V rated value4.6 kW- operating apparent power at AC-6a		3 kW
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operating power for approx. 200000 operating cycles at AC-4         • at 400 V rated value       2.6 kW         • at 690 V rated value       4.6 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       9.8 kVA         • up to 690 V for current peak value n=20 rated value       9.8 kVA         • 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 230 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 kVA         • up to 690 V for current peak value n=30 rated value       9.8 kVA         • up to 500 V for current peak value n=30 rated value       9.2 kVA         • up to 690 V for current peak value n=30 rated value       5.2 kVA         • up to 690 V for current peak value n=30 rated value       9 kVA         short-time withstand current in cold operating state up to 40 °C       9 kVA         short-time withstand current maximum       210 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       210 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       10		
• at 400 V rated value         2.6 kW           • at 690 V rated value         4.6 kW           operating apparent power at AC-6a         4.6 kW           • up to 230 V for current peak value n=20 rated value         4.5 kVA           • up to 400 V for current peak value n=20 rated value         7.8 kVA           • up to 500 V for current peak value n=20 rated value         9.8 kVA           • up to 690 V for current peak value n=20 rated value         9.8 kVA           • up to 230 V for current peak value n=30 rated value         10.7 kVA           operating apparent power at AC-6a         -           • up to 230 V for current peak value n=30 rated value         5.2 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         5.2 kVA           • up to 500 V for current peak value n=30 rated value         5.2 kVA           • up to 690 V for current peak value n=30 rated value         9 kVA           short-time withstand current in cold operating state up to 40 °C         -           • limited to 1 s switching at zero current maximum         210 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 10 s switching at zero current maximum         170 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 10 s switching at zero current maximum         126 A; Use m		
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• at 50 Hz         68 VA           • at 60 Hz         67 VA           • at 60 Hz         67 VA           • at 60 Hz         0.72           • at 60 Hz         0.74           • at 60 Hz         6.5 VA           Inductive power factor with the holding power of the coll         6.5 VA           • at 60 Hz         0.25           • at 60 Hz         0.28           closing delay         0.28           • at AC         4 16 ms           • at AC         5 4 10 ms      <	• at 60 Hz	0.85 1.1			
• at 60 Hz67 Vainductive power factor with closing power of the coll72at 60 Hz0.72at 60 Hz0.74at 60 Hz79 Vaat 60 Hz0.92inductive power factor with the holding power of the coll0.25at 60 Hz0.26at 60 Hz0.26ot 70 Hz0.26	apparent pick-up power of magnet coil at AC				
inductive power factor with closing power of the coll         0.72           • at 50 Hz         0.72           apparent holding power of magnet coll at AC         7.9 VA           • at 50 Hz         7.9 VA           • at 50 Hz         6.5 VA           Inductive power factor with the holding power of the coll         0.25           • at 50 Hz         0.25           • at 60 Hz         0.26           • at 60 Hz         0.28           closing delay         0.24           • at AC         8 40 ms           opening delay         10 10 ms           • at AC         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxillary controls         10 10 ms           control version of the switch operating mechanism         1           operational current at AC-15         1           operational current at AC-15         1           operational current at AC-15         1           • at 500 V rated value         10 A           • at 600 V rated value         2A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V ra	● at 50 Hz	68 VA			
• at 50 Hz         0.72           • at 60 Hz         074           • at 60 Hz         074           • at 50 Hz         7.9 VA           • at 50 Hz         7.9 VA           • at 60 Hz         0.25           • at 60 Hz         0.25           • at 60 Hz         0.26           • at 60 Hz         0.28           • at 60 Hz         0.28           • at 60 Hz         0.28           • at 80 Hz         10.8           • at 800 Y colds for auxiliary contacts instantaneous         1           • operational current at AC-12 maximum         10 A           • at 230 V rated value         3A           • at 800 V rated value         3A           • at 800 V rated value         3A           • at 800 V rated value         6A           • at 800 V rated value         6A           • at 800 V rated value	• at 60 Hz	67 VA			
• at 60 Hz074apparent holding power of magnet coil at AC7.9 VA• at 60 Hz6.5 VAinductive power factor with the holding power of the coil0.26• at 60 Hz0.28• at 60 Hz0.28• at 60 Hz0.28• at 60 Hz0.30• at AC8 40 ms• at AC4 16 ms• at AC0.10 ms• at AC10 10 ms• at AC2.8• at AC10 10 ms• at AC10 10 ms• at AC10 10 ms• at AC10 10 ms• at AC10 A• at AC10 A• at AC3A• at AC10 A• at 320 V rated value10 A• at 400 V rated value3A• at 400 V rated value3A• at 400 V rated value6A• at 410 V rated value <td< td=""><td>inductive power factor with closing power of the coil</td><td></td></td<>	inductive power factor with closing power of the coil				
apparent holding power of magnet coil at AC	• at 50 Hz	0.72			
• at 50 Hz         7.9 VA           • at 50 Hz         55 VA           • at 50 Hz         50 VA           • at 50 Hz         0.25           • at 50 Hz         0.25           • at 60 Hz         0.26           • at 60 Hz         0.26           • at 60 Hz         0.26           • at 60 Hz         0.27           • at 60 Hz         0.26           • at AC         8 40 ms           • at AC         4 16 ms           • at AC         4 16 ms           • at AC         10 10 ms           control version of the switch operating mechanism         500 Activated A1 - A2           Auxiliary circuit         1           outside of NC contacts for auxiliary contacts instantaneous contact         1           number of NC contacts for auxiliary contacts instantaneous contact         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           • at 300 V rated value         3A           • at 300 V rated value         3A           • at 600 V rated value         6A           • at 600 V rated value         6A           • at 600 V rated value         6A           • at 600 V rated	• at 60 Hz	0.74			
i at 60 Hz6.5 VAinductive power factor with the holding power of the coil0.25at 60 Hz0.26i at 60 Hz0.28i at 60 Hz840 msopening delay416 msarcing time1010 mscontrol version of the switch operating mechanismStandard A1 - A2Avillary circuit1number of NC contacts for auxiliary contacts instantaneous1operational current at AC-12 maximum10operational current at AC-12 maximum10at 300 V rated value3Aat 400 V rated value10Aat 400 V rated value6Aat 600 V rated value6Aat 600 V rated value6Aat 600 V rated value10Aat 600 V rated value6Aat 600 V rated value6Aa	apparent holding power of magnet coil at AC				
Inductive power factor with the holding power of the coil         0.25           • at 60 Hz         0.26           (coising delay         0.28           • at AC         8 40 ms           opening delay         4 16 ms           • at AC         4 16 ms           arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Availiary circus         1           number of NC contacts for auxiliary contacts instantaneous contact         1           contact         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         1           • at 300 V rated value         10 A           • at 200 V rated value         10 A           • at 600 V rated value         2A           • at 600 V rated value         10 A           • at 600 V rated value         6A           • at 600 V rated value         6A           • at 600 V rated value         1A           • at 600 V rated value         1A           • at 100 V rated value <td>• at 50 Hz</td> <td>7.9 VA</td>	• at 50 Hz	7.9 VA			
• at 50 Hz         0.25           • at 60 Hz         0.28           • at 60 Hz         840 ms           • at AC         840 ms           • at AC         416 ms           • at AC         1010 ms           • at AC         540 ms           • at AC         540 ms           • at AC         1010 ms           • at 300 Vated value ontacts instantaneous         1010 ms           • at 230 V rated value         10 A           • at 230 V rated value         10 A           • at 300 V rated value         2A           • at 600 V rated value         6A           • at 600 V rated value         6A           • at 60 V rated value         6A           • at 60 V rated value         10.A           • at 60 V rated value         10.A           • at 60 V rated value         10.A	• at 60 Hz	6.5 VA			
• at 80 Hz028closing delay	inductive power factor with the holding power of the coil				
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 instantaneous         1           operational current at AC-12 maximum         10 A           operational current at AC-12 maximum         10 A           operational current at AC-12 maximum         10 A           • at 230 V rated value         3.A           • at 230 V rated value         2.A           • at 400 V rated value         3.A           • at 600 V rated value         1.A           • at 24 V rated value         10.A           • at 400 V rated value         1.A           • at 400 V rated value         1.A           • at 400 V rated value         1.A           • at 24 V rated value         1.A           • at 42 V rated value         3.A           • at 43 V rated value         3.A           • at 43 V rated value         3.A           • at 25 V rated value         3.A           • at 10 V rated value <t< td=""><td>• at 50 Hz</td><td>0.25</td></t<>	• at 50 Hz	0.25			
• et AC840 msopening delay	• at 60 Hz	0.28			
opening delay• at AC4 18 msarcing time10 10 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A• at 230 V rated value10 A• at 230 V rated value10 A• at 600 V rated value6 A• at 600 V rated value10 A• at 400 V rated value2 A• at 400 V rated value1 A• at 400 V rated value2 A• at 400 V rated value2 A• at 400 V rated value2 A• at 400 V rated value3 A• at 400 V rated value3 A• at 410 V rated value3 A• at 42 V rated value3 A• at 42 V rated value10 A• at 42 V rated value10 A• at 42 V rated value2 A• at 42 V rated value <td< td=""><td>closing delay</td><td></td></td<>	closing delay				
• at AC         4 16 ms           arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         1           number of NC contacts for auxiliary contacts instantaneous contact         1           number of NO contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         1           • at 230 V rated value         3A           • at 600 V rated value         3A           • at 600 V rated value         10 A           • at 600 V rated value         6A           • at 10 V rated value         6A           • at 10 V rated value         6A           • at 10 V rated value         1A           • at 24 V rated value         1A           • at 24 V rated value         6A           • at 48 V rated value         6A           • at 10 V rated value         2A           • at 125 V rated value         1A	• at AC	8 40 ms			
arcing time10 10 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuitInumber of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 • at 230 V rated value10 A• at 230 V rated value3 A• at 400 V rated value2 A• at 400 V rated value10 A• at 400 V rated value6 A• at 400 V rated value10 A• at 230 V rated value10 A• at 240 V rated value6 A• at 250 V rated value10 A• at 48 V rated value10 A• at 24 V rated value10 A• at 250 V rated value2 A• at 260 V rated value2 A• at 270 V rated value2 A• at 280 V rated value	opening delay				
International control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         1           number of NC 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           • at 230 V rated value         10 A           • at 400 V rated value         3A           • at 690 V rated value         1A           • at 690 V rated value         1A           • at 690 V rated value         6A           • at 690 V rated value         6A           • at 60 V rated value         1A           operational current at DC-12         -           • at 60 V rated value         6A           • at 60 V rated value         6A           • at 60 V rated value         1A           operational current at DC-12         -           • at 60 V rated value         6A           • at 60 V rated value         6A           • at 60 V rated value         1A           • at 60 V rated value         1A           • at 60 V rated value         1A           • at 20 V rated value         1A           • at 20 V	• at AC	4 16 ms			
Auxiliary circuit       1         number of NC contacts for auxiliary contacts instantaneous contact       1         number of NO contacts for auxiliary contacts instantaneous contact       1         operational current at AC-12 maximum       10 A         operational current at AC-12 maximum       10 A         operational current at AC-15       0         • at 230 V rated value       10 A         • at 400 V rated value       3 A         • at 600 V rated value       2 A         • at 600 V rated value       10 A         • at 24 V rated value       6 A         • at 40 V rated value       6 A         • at 24 V rated value       10 A         • at 25 V rated value       10 A         • at 600 V rated value       10 A         • at 600 V rated value       10 A         • at 600 V rated value       10 A         • at 24 V rated value       10 A         • at 25 V rated value       10 A         • at 600 V rated value       10 A         • at 600 V rated value       10 A         • at 100 V rated value       10 A         • at 24 V rated value       10 A         • at 24 V rated value       2 A         • at 600 V rated value       2 A <td< td=""><td>arcing time</td><td>10 10 ms</td></td<>	arcing time	10 10 ms			
number of NC contacts for auxiliary contacts instantaneous contact         1           number of NO contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           ot at 230 V rated value         2 A           e at 230 V rated value         2 A           e at 690 V rated value         1 A           operational current at DC-12					
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contact         interfact of a contract at AC-12 maximum           operational current at AC-12 maximum         10 A           operational current at AC-15         Image: contract of a contra contract of a contract of a co		Standard A1 - A2			
operational current at AC-15• at 230 V rated value10 A• at 400 V rated value3 A• at 600 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value6 A• at 60 V rated value3 A• at 60 V rated value6 A• at 60 V rated value1 A• at 60 V rated value6 A• at 60 V rated value1 A• at 60 V rated value0 A• at 10 V rated value1 A• at 220 V rated value1 A• at 24 V rated value0.15 Aoperational current at DC-13-• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value2 A• at 25 V rated value10 A• at 26 V rated value10 A• at 27 V rated value2 A• at 28 V rated value2 A• at 29 V rated value2 A• at 20 V rated value2 A• at 10 V rated value2 A• at 10 V rated value1 A• at 25 V rated value0.9 A• at 125 V rated value0.3 A• at 600 V rated value0.3 A<	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous				
• at 230 V rated value       10 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	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	1			
• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 A• operational current at DC-12•• at 24 V rated value10 A• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 10 V rated value3 A• at 110 V rated value2 A• at 220 V rated value10 A• at 60 V rated value0.15 A• at 60 V rated value2 A• at 60 V rated value10 A• at 48 V rated value2 A• at 60 V rated value10 A• at 60 V rated value2 A• at 60 V rated value10 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 110 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1			
• 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 24 V rated value       6 A         • at 60 V rated value       6 A         • at 60 V rated value       3 A         • at 110 V rated value       2 A         • at 220 V rated value       1 A         • at 600 V rated value       2 A         • at 600 V rated value       0.15 A         • at 600 V rated value       2 A         • at 600 V rated value       10 A         • at 600 V rated value       2 A         • at 600 V rated value       0.15 A         • at 600 V rated value       10 A         • at 24 V rated value       0.10 A         • at 600 V rated value       2 A         • at 600 V rated value       0.9 A         • at 125 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 600 V rated value       0.3 A         • at 600 V rated value       0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1			
• at 690 V rated value         1 A           operational current at DC-12         0           • at 24 V rated value         10 A           • at 24 V rated value         6 A           • at 60 V rated value         6 A           • at 60 V rated value         3 A           • at 110 V rated value         2 A           • at 220 V rated value         0.15 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 600 V rated value         0.15 A           • at 220 V rated value         10 A           • at 600 V rated value         0.15 A           • at 600 V rated value         0.15 A           • at 22 V rated value         0.9 A           • at 24 V rated value         0.9 A           • at 110 V rated value         0.9 A           • at 125 V rated value         0.9 A           • at 125 V rated value         0.3 A           • at 600 V rated value         0.3 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 1 10 A 10 A			
operational current at DC-12• at 24 V rated value10 A• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 60 V rated value0.15 A• at 24 V rated value2 A• at 60 V rated value10 A• at 220 V rated value0.15 A• at 24 V rated value10 A• at 25 V rated value2 A• at 24 V rated value10 A• at 25 V rated value2 A• at 26 V rated value2 A• at 27 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	1 1 10 A 10 A 3 A			
• 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       10 A         • at 600 V rated value       10 A         • at 600 V rated value       2 A         • at 600 V rated value       10 A         • at 24 V rated value       2 A         • at 600 V rated value       2 A         • at 600 V rated value       10 A         • at 24 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       0 A         • at 25 V rated value       0 A         • at 60 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 600 V rated value       0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	1 1 10 A 10 A 3 A 2 A			
• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value2 A• at 48 V rated value10 A• at 60 V rated value2 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 125 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	1 1 10 A 10 A 3 A 2 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       10 A         • at 24 V rated value       2 A         • at 48 V rated value       2 A         • at 600 V rated value       10 A         • at 48 V rated value       2 A         • at 60 V rated value       0 A         • at 25 V rated value       0 A         • at 20 V rated value       0 A         • at 20 V rated value       0 A         • at 20 V rated value       0 A         • at 110 V rated value       0 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	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 3 A 2 A			
• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 25 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A	Auxiliary circuit          number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A 2 A 1 A			
• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 2 A 1 A 10 A			
• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A			
• at 600 V rated value       0.15 A         operational current at DC-13       -         • at 24 V rated value       10 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	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 44 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A			
operational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A			
• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 2 A			
• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A			
• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 20 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A			
• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 60 V rated value         • at 20 V rated value         • at 24 V rated value         • at 24 V rated value         • at 25 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 0.15 A			
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 400 V rated value • at 220 V rated value • at 400 V rated value • at 410 V rated value • at 42 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10			
at 220 V rated value     0.3 A     0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1         1         10 A         2 A         10 A         2 A			
• at 600 V rated value 0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 24 V rated value         • at 48 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 1			
	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 400 V rated value         • at 60 V rated value         • at 48 V rated value         • at 10 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value         • at 48 V rated value         • at 400 V rated value         • at 60 V rated value         • at 60 V rated value         • at 60 V rated value <t< td=""><td>1         1         10 A         10 A         2 A         1 A         10 A         6 A         6 A         6 A         1 A         10 A         1 A         10 A         1 A</td></t<>	1         1         10 A         10 A         2 A         1 A         10 A         6 A         6 A         6 A         1 A         10 A         1 A         10 A         1 A			
	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 24 V rated value         • at 60 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 60 V rated value         • at 60 V rated value         • at 110 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 24 V rated value         • at 10 V rated value         • at 110 V rated value         • at 110 V rated value         • at 110 V rated value      <	1         1         10 A         10 A         10 A         2 A         1 A         10 A         6 A         6 A         3 A         2 A         1 A         10 A         6 A         6 A         6 A         6 A         10 A         2 A         1 A         10 A         2 A         1 A         0.15 A			
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 48 V rated value         • at 10 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 10 V rated value	1         1         10 A         10 A         3 A         2 A         1 A         10 A         6 A         6 A         3 A         2 A         1 A         10 A         6 A         6 A         6 A         6 A         6 A         6 A         1 A         10 A         2 A         1 A         0.15 A         10 A         2 A         1 A         0.9 A         0.3 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			
<ul> <li>for 3-phase AC motor</li> </ul>				
— 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				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
- 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)			
<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			
factoning method side by side mounting	backward by +/- 22.5° on vertical mounting surface Yes			
fastening method side-by-side mounting				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	85 mm			
width	45 mm 97 mm			
depth required spacing	97 mm			
with side-by-side mounting				
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	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)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
• stranded	1 10 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm <sup>2</sup>			

connectable conducto	or cross-section for au	xiliary contacts	-			
<ul> <li>solid or stranded</li> </ul>		kinary contacts	0.5 2.5 r	nm²		
	vith core end processing		0.5 2.5 r			
	onductor cross-section	ne	0.0 2.0 1			
<ul> <li>for auxiliary cont</li> </ul>		13				
- solid or stra			2x (0.5 1	1.5 mm²), 2x (0.75 .	$2.5 \text{ mm}^2$	
	ded with core end proces	ssing		1.5 mm²), 2x (0.75 . 1.5 mm²), 2x (0.75 .		
-		ssing			2.5 ጠጠ-)	
	for auxiliary contacts		ZX (20 1	6), 2x (18 14)		
section	ed connectable conduc	tor cross				
<ul> <li>for main contacts</li> </ul>	S		16 8			
<ul> <li>for auxiliary cont</li> </ul>	acts		20 14			
Safety related data						
product function						
•	ccording to IEC 60947-4-	1	Yes			
	operation according to I		No			
<ul> <li>suitable for safet</li> </ul>			Yes			
suitability for use safety			Yes			
service life maximum	Ŭ		20 a			
test wear-related serv			Yes			
proportion of danger			105			
		020	40.9/			
	I rate according to SN 31		40 %			
•	d rate according to SN 3		73 %			
	emand rate according		1 000 000			
31920	low demand rate accor	ding to SN	100 FIT			
ISO 13849						
device type according	-		3			
	cording to ISO 13849-2	necessary	Yes			
IEC 61508						
	cording to IEC 61508-2		Туре А			
Electrical Safety						
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				
Approvals Certificates			_			
General Product App	roval					
	CE EG-Konf.	UK CA		<u>Confirmation</u>		<u>KC</u>
General Product Ap- proval	EMV	Test Certificat	es		Marine / Shipping	
EHC	RCM	<u>Type Test Cer</u> ates/Test Re		ecial Test Certific- ate	ABS	BUREAU VERITAS
Marine / Shipping					other	
	Lloyd's Register urs			KMRS	<u>Miscellaneous</u>	<u>Confirmation</u>
other	Railway	Environment				



Special Test Certificate



Environmental Confirmations

## Further information

Information on the packaging

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

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=3RT2024-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AC20

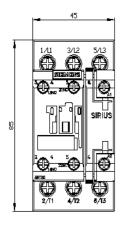
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

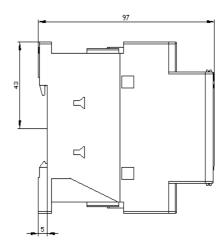
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2024-1AC20&lang=en

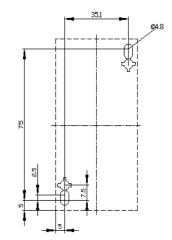
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AC20/char Further characteristics (e.g. electrical endurance, switching frequency)

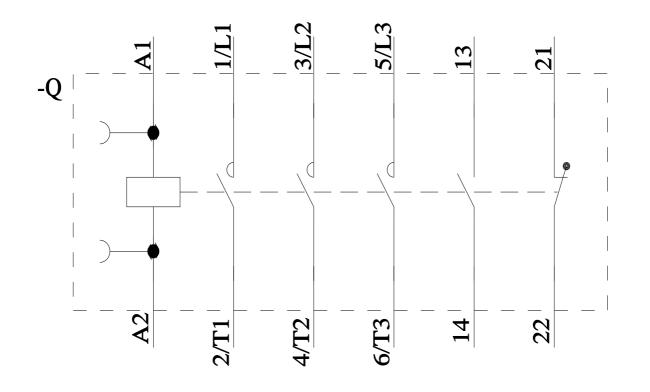
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1AC20&objecttype=14&gridview=view1











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