## SIEMENS

## Data sheet

## 3RT2016-1AP01-1AA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00, upright mounting position

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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>	1.1 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
● at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

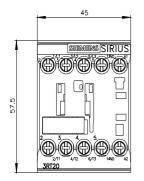
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3.5 A
— up to 200 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

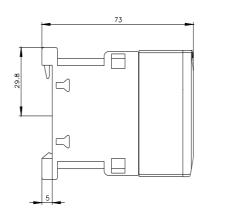
	— at 24 V rated value	20 A
<ul> <li>with 2 current path in sprice at DC-3 at DC-3</li> <li>at 24 V rates value</li> <li>bA</li> <li>at 10 V rates value</li> <li>DA</li> <li>at 10 V rates value</li> <li>DA</li> <li>at 24 V rates value</li> <li>At 25 V rates value</li> <li>At 20 V rates value&lt;</li></ul>	— at 60 V rated value	0.5 A
	— at 110 V rated value	0.15 A
- at 60 V rater value     9.A       - at 102 V rater value     005 A       - at 24 V rater value     20.A       - at 24 V rater value     20.A       - at 102 V rater value     20.A       - at 24 V rater value     20.A       - at 24 V rater value     20.A       - at 240 V rater value     20.A       - at 240 V rater value     20.A       - at 240 V rater value     22.A       - at 240 V rater value     22.A       - at 250 V rater value     22.AV       - at 250 V rater value     22.WV       - at 250 V rater value     4.WV       - at 250 V rater value     5.WV       - at 250 V rater value     2.WV       - at 250 V rater value	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
• with 3 current paths in series at DC-3 at DC-5- at 24 V rated value20 A- at 40 V rated value20 A- at 410 V rated value20 A- at 420 V rated value20 A- at 440 V rated value0.2 A- at 440 V rated value2.2 kW- at 400 V rated value4 kW- at 230 V rated value2.2 kW- at 400 V rated value5.5 kW- at 400 V rated value5.5 kW- at 400 V rated value5.5 kW- at 400 V rated value2.2 kW- at 400 V rated value2.2 kW- at 400 V rated value5.5 kW- at 400 V rated value2.2 kW- at 400 V rated value2.5 kW- at 400 V fract value2.5 kW- at 400 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=30 rated value4.6 kVA <td>— at 60 V rated value</td> <td>5 A</td>	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
	— at 220 V rated value	1.5 A
operating power         4 kW           • at AC2 at 400 V rated value         4 kW           • at AC2 at 400 V rated value         4 kW           at 230 V rated value         2 kW           at 500 V rated value         4 kW           at 500 V rated value         4 kW           at 500 V rated value         5 kW	— at 440 V rated value	0.2 A
• at AC-2 at 400 V rated value     4 kW       • at AC-3     22 kW       • at 400 V rated value     4 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     2 kW       • at 600 V rated value     2 kW       • at 600 V rated value     4 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     2 kW       • up to 600 V for current pack value n=20 rated value     3 kVA       • up to 600 V for current pack value n=20 rated value     4 kW       • up to 600 V for current pack value n=20 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     4 kVA       • up to 600 V for current pack value n=30 rated value	— at 600 V rated value	0.2 A
• at AC-2 at 400 V rated value     4 kW       • at AC-3     22 kW       • at 400 V rated value     4 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     2 kW       • at 600 V rated value     2 kW       • at 600 V rated value     4 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     5 kW       • at 600 V rated value     2 kW       • up to 600 V for current pack value n=20 rated value     3 kVA       • up to 600 V for current pack value n=20 rated value     4 kW       • up to 600 V for current pack value n=20 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     3 kVA       • up to 600 V for current pack value n=30 rated value     4 kVA       • up to 600 V for current pack value n=30 rated value	operating power	
		4 kW
- at 400 V rated value     4 kW       - at 500 V rated value     4 kW       - at 230 V rated value     5.5 kW       - at 230 V rated value     2 kW       - at 500 V rated value     4 kW       - at 500 V rated value     4 kW       - at 500 V rated value     4 kW       - at 600 V rated value     4 kW       - at 500 V rated value     5.5 kW       operating power for approx. 200000 operating cycles at AC-4     5.5 kW       • at 600 V rated value     2.5 kW       • up to 230 V for current peak value m20 rated value     3.6 k/A       • up to 500 V for current peak value m20 rated value     4.6 k/A       • up to 600 V for current peak value m20 rated value     5.9 kVA       • up to 600 V for current peak value m20 rated value     2.4 k/A       • up to 600 V for current peak value m30 rated value     2.4 k/A       • up to 600 V for current peak value m30 rated value     3.1 k/A       • up to 600 V for current peak value m30 rated value     4.6 k/A       • up to 600 V for current peak value m30 rated value     4.6 k/A       • up to 600 V for current peak value m30 rated value     5.9 kVA       • up to 600 V for current peak value m30 rated value     6.0 k/A <tr< td=""><td>• at AC-3</td><td></td></tr<>	• at AC-3	
- at 400 V rated value     4 kW       - at 500 V rated value     4 kW       - at 230 V rated value     5.5 kW       - at 230 V rated value     2 kW       - at 500 V rated value     4 kW       - at 500 V rated value     4 kW       - at 500 V rated value     4 kW       - at 600 V rated value     4 kW       - at 500 V rated value     5.5 kW       operating power for approx. 200000 operating cycles at AC-4     5.5 kW       • at 600 V rated value     2.5 kW       • up to 230 V for current peak value m20 rated value     3.6 k/A       • up to 500 V for current peak value m20 rated value     4.6 k/A       • up to 600 V for current peak value m20 rated value     5.9 kVA       • up to 600 V for current peak value m20 rated value     2.4 k/A       • up to 600 V for current peak value m30 rated value     2.4 k/A       • up to 600 V for current peak value m30 rated value     3.1 k/A       • up to 600 V for current peak value m30 rated value     4.6 k/A       • up to 600 V for current peak value m30 rated value     4.6 k/A       • up to 600 V for current peak value m30 rated value     5.9 kVA       • up to 600 V for current peak value m30 rated value     6.0 k/A <tr< td=""><td>— at 230 V rated value</td><td>2.2 kW</td></tr<>	— at 230 V rated value	2.2 kW
• at AC-3e         22 kW           at 230 V rated value         2 kW           at 500 V rated value         4 kW           at 500 V rated value         5 kW           - at 400 V rated value         5 kW           - at 400 V rated value         2 kW           - at 400 V for current peak value n=20 rated value         2 kVA           - up to 520 V for current peak value n=20 rated value         3 kVA           - up to 500 V for current peak value n=20 rated value         3 kVA           - up to 500 V for current peak value n=20 rated value         3 kVA           - up to 500 V for current peak value n=30 rated value         3 kVA           - up to 500 V for current peak value n=30 rated value         3 kVA           - up to 500 V for current peak value n=30 rated value         4 kVA           • up to 500 V for current peak value n=30 rated value         4 kVA           • up to 500 V for current peak value n=30 rated value         4 kVA           • up to 600 V for current peak value n=30 rated value         4 kVA           • lininted		
		2.2 kW
operating power for approx. 200000 operating cycles at AC-4         • at 400 V rated value       2 kW         • at 680 V rated value       2 kW         • at 630 V rated value       2 kW         • up to 230 V for current peak value n=20 rated value       2 kVA         • up to 500 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       4.6 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4.4 kVA         short-time withstand current in cold operating state up to 40°C       15 A: Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       111 A: Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A: Use minimum cross-section acc. to AC-1 rated value         • eit AC-1       10 000 1/h         • eit AC-2       10 000 1/h		
A to V rated value     at 400 V rated value     at 690 V rated value     at 690 V rated value     2 kW     25 kW     operating apparent power at AC-6a     up to 230 V for current peak value n=20 rated value     2 kVA     vup to 400 V for current peak value n=20 rated value     40 kVA     vup to 500 V for current peak value n=20 rated value     40 kVA     vup to 500 V for current peak value n=20 rated value     59 kVA     operating apparent power at AC-6a     vup to 230 V for current peak value n=20 rated value     59 kVA     operating apparent power at AC-6a     vup to 500 V for current peak value n=30 rated value     1.3 kVA     vup to 500 V for current peak value n=30 rated value     40 vC     vup to 500 V for current peak value n=30 rated value     4. kVA     short-line withstand current in cold operating state up to     40 vC     vup to 500 v for current peak value n=30 rated value     ilmited to 1s switching at zero current maximum     ilmited to 1s switching at zero current maximum     ilmited to 1s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 50 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to		0.0 KW
• at 690 V rated value       2.5 kW         operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       60 °C         • limitled to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limitled to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limitled to 30 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         operating frequency       10000		
operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       4.6 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 200 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4. kVA         • up to 500 V for current peak value n=30 rated value       4. kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4. kVA         • up to 500 V for current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       50 t/n         • et A	• at 400 V rated value	2 kW
• 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 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 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 neak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current neak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • to 40 °C     • limited to 1 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • ta AC     • ota ACC     • at AC     • at AC-3 maximum     • at AC-4 maximum	• at 690 V rated value	2.5 kW
• 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 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 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 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current peak value n=30 rated value     • Up to 600 V for current in cold operating for up corrent maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • Ifol 60 V for current peak value     • at AC     • at AC	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value     • up to 690 V for current peak value n=20 rated value     • up to 690 V for current peak value n=30 rated value     • up to 230 V for current peak value n=30 rated value     • up to 400 V for current peak value n=30 rated value     • up to 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 neak value n=30 rated value     • up to 690 V for current neak value n=30 rated value     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 70 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     • Limited to 60 s switching at zero current maximum     •	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2 kVA
• up to 690 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 230 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 690 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       4 kVA         • limited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       5 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 50 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       5 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h       1000 1/h         • at AC-3 maximum       750 1/h       1000 1/h         • at AC-3 maximum       750 1/h       250 1/h         • at AC-3 maximu	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA
operating apparent power at AC-6a         • up to 230 V for current peak value n=30 rated value       1.3 kVA         • up to 400 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 600 V for current peak value n=30 rated value       4.4 kVA         • up to 600 V for current peak value n=30 rated value       4.4 kVA         • up to 600 V for current peak value n=30 rated value       4.4 kVA         short-time withstand current in cold operating state up to 40 °C       4 kVA         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       10 000 1/h         • eat AC       10 000 1/h         • eat AC-1 maximum       1 000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       230 V	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	4.6 kVA
operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 680 V for current peak value n=30 rated value</li> <li>tVA</li> </ul> <li>up to 680 V for current peak value n=30 rated value</li> <li>tVA</li> <li>up to 680 V for current peak value n=30 rated value</li> <li>tVA</li> <li>tkVA</li> <li>short-time withstand current in cold operating state up to 40°C</li> <li>ilmited to 1 s switching at zero current maximum</li> <li>tS5 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>ilmited to 10 s switching at zero current maximum</li> <li>timited to 10 s switching at zero current maximum</li> <li>timited to 10 s switching at zero current maximum</li> <li>timited to 30 s switching at zero current maximum</li> <li>timited to 60 s switching at zero current maximum</li> <li>tacc</li> <li></li>	• up to 690 V for current peak value n=20 rated value	5.9 kVA
• up to 400 V for current peak value n=30 rated value     2.4 kVA     up to 500 V for current peak value n=30 rated value     3.1 kVA     up to 690 V for current peak value n=30 rated value     4 kVA     short-time withstand current in cold operating state up to     40 °C     • limited to 1 s switching at zero current maximum     155 A; Use minimum cross-section acc. to AC-1 rated value     ilimited to 10 s switching at zero current maximum     filmited to 10 s switching at zero current maximum     filmited to 10 s switching at zero current maximum     filmited to 30 s switching at zero current maximum     filmited to 60 s switching at zero current maximum     filmited to 60 s switching at zero current maximum     filmited to 60 s switching at zero current maximum     for 40 °C     • at AC     10 000 1/h     operating frequency     • at AC-2 maximum     1000 1/h     • at AC-3 maximum     1000 1/h     • at AC-3 maximum     750 1/h     • at AC-4 maximum     zero turrent     • at AC-4 maximum     zero turrent     * at AC-4 maximum     zero     * at AC-4 maximum     * at AC-4 maximum     zero     * at AC-4 maximum     zero     * at AC-4 maximum     zero     * at AC-4 maximum     * zero     *		
• up to 400 V for current peak value n=30 rated value     2.4 kVA     up to 500 V for current peak value n=30 rated value     3.1 kVA     up to 600 V for current peak value n=30 rated value     4 kVA     short-time withstand current in cold operating state up to     40 °C     ilimited to 1 s switching at zero current maximum     ilimited to 1 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     ilimited to 60 s switching at zero current maximum     for 40 °C     interference     iat AC     10 000 1/h     operating frequency     iat AC-2 maximum     for 40 °C     iat AC-3 maximum     for 40 °C     int AC-4 maximum     zon 1/h     iat AC-3e maximum     zon 1/h     iat AC-3e maximum     zon 1/h     iat AC-4 maxi		1.3 kVA
• up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       4 kVA         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching frequency       00 000 1/h         • at AC       10 000 1/h         • at AC-1 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       Control supply voltage         Vpe of voltage of the control supply voltage       AC         • at 60 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 60 Hz rated value       230 V		2.4 kVA
• up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h         • at AC-1 maximum       1000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control supply voltage at AC       AC         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 60 Hz rated value		
short-time withstand current in cold operating state up to 40 °C       ilimited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 1 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 61 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       66 A; Use minimum cross-section acc. to AC-1 rated value         e at AC       10 000 1/h         operating frequency       1000 1/h         e at AC-3 maximum       1000 1/h         e at AC-3 maximum       750 1/h         e at AC-4 maximum       250 1/h         Control circuit/ Control       KC         type of voltage of the control supply voltage       AC         e at 50 Hz rated value       230 V         e at 60 Hz rated value       230 V		
40 °C       • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h         operating frequency       • at AC-1 maximum         • at AC-2 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control circuit/ Control       V         • at AC 4 maximum       230 V         • at 60 Hz rated value       230		
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>111 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 10 s switching at zero current maximum</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>66 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>100 01/h</li> <li>at AC</li> <li>100 000 1/h</li> <li>at AC-1 maximum</li> <li>1000 1/h</li> <li>at AC-2 maximum</li> <li>1000 1/h</li> <li>at AC-3 maximum</li> <li>1000 1/h</li> <li>at AC-3 maximum</li> <li>50 1/h</li> <li>at AC-3 maximum</li> <li>50 1/h</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>230 V</li> <li>at 60 Hz rated value</li> <li>230 V</li> <li>operating range factor control supply voltage rated value of</li> </ul>		
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>66 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>no-load switching frequency         <ul> <li>at AC</li> <li>10 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>1000 1/h</li> <li>at AC-2 maximum</li> <li>1000 1/h</li> <li>at AC-3 maximum</li> <li>55 0 1/h</li> <li>at AC-3 maximum</li> <li>55 0 1/h</li> <li>at AC-3 maximum</li> <li>55 0 1/h</li> </ul> </li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>230 V</li> <li>at 60 Hz rated value</li> <li>230 V</li> </ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	155 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         operating frequency       -         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       -         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 60 Hz rated value       230 V	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	111 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         operating frequency       1 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       250 1/h         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 60 Hz rated value       230 V	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         operating frequency       1 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       250 1/h         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 60 Hz rated value       230 V	-	66 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency       10 000 1/h         operating frequency       1 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       4000000000000000000000000000000000000	-	
• at AC10 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V		
operating frequencyI• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltage• at 50 Hz rated valueAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value of		10 000 1/h
• 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-3e maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       250 1/h         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 60 Hz rated value       230 V	operating frequency	
• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlControl circuit/ ControlControl supply voltage of the control supply voltageACAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value ofAC		1 000 1/h
• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/htype of voltage of the control supply voltageAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value of	• at AC-2 maximum	750 1/h
• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value ofAC		
• at AC-4 maximum     250 1/h       Control circuit/ Control     AC       type of voltage of the control supply voltage     AC       control supply voltage at AC     230 V       • at 50 Hz rated value     230 V       • at 60 Hz rated value     230 V       operating range factor control supply voltage rated value of     AC		
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       230 V         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         operating range factor control supply voltage rated value of       Factor control supply voltage rated value of		
type of voltage of the control supply voltage       AC         control supply voltage at AC       230 V         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         operating range factor control supply voltage rated value of       Factor control supply voltage rated value of		
control supply voltage at AC     230 V       • at 50 Hz rated value     230 V       • at 60 Hz rated value     230 V       operating range factor control supply voltage rated value of     230 V		AC
• at 50 Hz rated value 230 V     • at 60 Hz rated value 230 V     operating range factor control supply voltage rated value of		
• at 60 Hz rated value 230 V operating range factor control supply voltage rated value of		230 V
operating range factor control supply voltage rated value of		

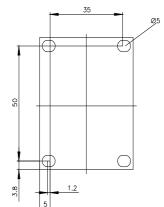
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	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	
at 24 V rated value	10 A
at 21 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	764
at 480 V rated value	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
for single-phase AC motor	0.00 hr
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	E hn
	5 hp
— at 575/600 V rated value	7.5 hp
— at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	

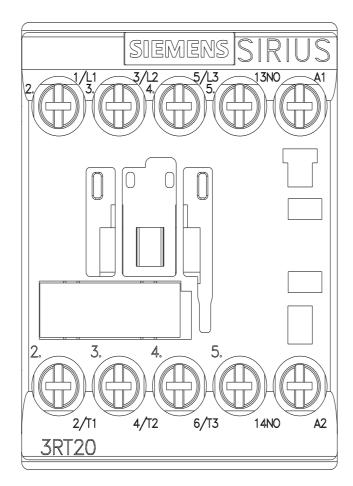
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	gg. 10 A (300 V, 1 M)
	standing on horizontal mounting surface
mounting position	standing, on horizontal mounting surface
fastening method <ul> <li>side-by-side mounting</li> </ul>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes
	58 mm
_ height width	45 mm
depth	73 mm
required spacing	70 mm
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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	
for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes; with 3RH29
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
•	

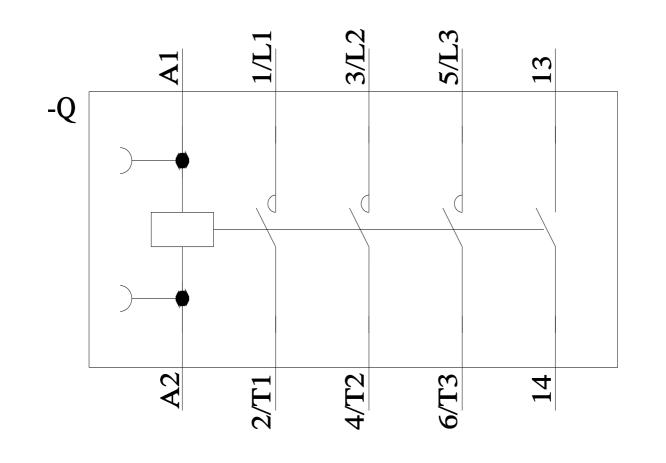
auuro rato (FIT) with h		920 73 %			
	ow demand rate according t		-11		
11 value for proof test 61508	t interval or service life acco	rding to IEC 20 a			
protection class IP o	on the front according to I	EC 60529 IP20			
•	the front according to IEC	60529 finge	r-safe, for vertical contac	t from the front	
ertificates/ approvals	5				
General Product Ap	proval				
SF.		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	rmity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certif</u> <u>ate</u>
Marine / Shipping					
ABS	B D REAU VERITAS		Lloyds Register urs	PRS	RINA
Marine / Shipping	other			Railway	Environment
	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	Environmental Co firmations
RMRS					
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iemens has decided	.com/global/en/pressrelease	siemens-wind-down-rus	sian-business		
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