## SIEMENS

## Data sheet

## 3RT2018-2FB41



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, with integrated diode, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00  $\,$ 

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>	3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1 W
<ul> <li>without load current share typical</li> </ul>	4 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 DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 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	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-4 at 400 V rated value	11.5 A
• at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 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	4.4 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— 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 Vield value     - at 02 Vield value     05A     - at 01 Vield value     05A     - at 04 Vield value     75 KW     - at 040 Vield value     05 Vield value     75 KW     - at 040 Vield value     05 Vield value     05 KW     - at 040 Vield value     - at 040 Vield valu		
	— at 24 V rated value	20 A
• with 2 current path is series at DC-3 at DC-5         20 A           - at 20 V rated value         5A           - at 10 V rated value         5A           - at 24 V rated value         20 A           - at 25 V rated value         20 A           - at 25 V rated value         75 KW           - at 260 V rated value         75 KW           - at 25 V rated value         75 KW           - at 250 V rated value         75 KW           - at 250 V rated value         75 KW           - at 400 V rated value         75 KW           - at 400 V rated value         25 KW           - at 400 V rated value         25 KW           - at 400 V rated value         25 KW           - at 400 V rated value         35 KW           oppertiting paperatif pover 4 A C-26         7 KW		
	— at 110 V rated value	0.15 A
	— at 24 V rated value	20 A
• with 3 current paths in series at DC-3 at DC-3     20 A       - at 24 V rated value     20 A       - at 26 V rated value     20 A       - at 20 V rated value     20 A       - at 20 V rated value     20 A       - at 20 V rated value     02 A       - at 20 V rated value     75 KW       - at 20 V rated value     35 KW       - at 20 V rated value     35 KW       - at 20 V rated value     35 KW       - at 20 V rated value     36 KVA       - at 20 V rated value     30 KVA       - at 20 V rated value     30 KVA       - at 20 V rated value     30 KVA       - at 20 V rated value     20 KVA       - at 2	— 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        it AC3 <ul> <li>- at 230 V rated value</li> <li>- at 230 V rated value</li> <li>- at 230 V rated value</li> <li>- at 690 V rated value</li> <li>- at 600 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 00 V for current pack value n=30 rated value</li> <li>- at 00- at 000 V for current pack value n=30 rated value</li></ul>	— at 440 V rated value	0.2 A
er at AC-3         - at 230 V rated value         - at 400 V rated value         - at 500 V for current pask value n=20 rated value         - at 500 V for current pask value n=20 rated value         - at 500 V for current pask value n=20 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 rated value         - at 500 V for current pask value n=30 r	— at 600 V rated value	0.2 A
	operating power	
	• at AC-3	
	— at 230 V rated value	4 kW
	— at 400 V rated value	7.5 kW
e at AC-3e <ul> <li>- at 230 V rated value</li> <li>- at 230 V rated value</li> <li>- at 600 V for current pack value n=20 rated value</li> <li>- at 600 V for current pack value n=20 rated value</li> <li>- at 600 V for current pack value n=20 rated value</li> <li>- at 600 V for current pack value n=20 rated value</li> <li>- at 600 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=20 rated value</li> <li>- at 000 V for current pack value n=30 rated value</li> <li>- at 600 V for current pack value n=30 rated value</li> <li>- 5 KVA</li> <li>- up to 600 V for current pack value n=30 rated value</li> <li>- 5 KVA</li> <li>- up to 600 V for current pack value n=30 rated value</li> <li>- 5 KVA</li> <li>- at 00 - 20 vice value</li> <li>- 5 KVA</li> <li>- at 00 - 20 vice value</li> <li>- 5 KVA</li> <li>- at 00 - 20 vice value value</li> <li>- 5 KVA</li> <li>- at 00 - 20 - 20 - 20 - 20 - 20 - 20 - 20</li></ul>	— at 500 V rated value	7.5 kW
	— at 690 V rated value	7.5 kW
	• at AC-3e	
	— at 230 V rated value	4 kW
	— at 400 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-4       2.5 kW         • at 400 V rated value       3.5 kW         operating apparent power at AC-6a       3.5 kW         • up to 230 V for current peak value n=20 rated value       3.8 kVA         • up to 500 V for current peak value n=20 rated value       6.6 kVA         • up to 500 V for current peak value n=20 rated value       8.3 kVA         • up to 500 V for current peak value n=30 rated value       2.5 kVA         • up to 500 V for current peak value n=30 rated value       2.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       5.6 kVA         • up to 500 V for current peak value n=30 rated value       7.6 kVA         • up to 500 V for current peak value n=30 rated value       5.7 kVA         • up to 500 V for current peak value n=30 rated value       7.6 kVA         • limited to 5 s switching at zero current maximum       109 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s s	— at 500 V rated value	7.5 kW
A the second secon	— at 690 V rated value	7.5 kW
• at 400 V rated value         2.5 kW           • at 690 V rated value         3.5 kW           operating apparent power at AC-6a         3.8 kVA           • up to 300 V for current peak value n=20 rated value         6.8 kVA           • up to 500 V for current peak value n=20 rated value         8.8 kVA           • up to 500 V for current peak value n=20 rated value         8.8 kVA           • up to 500 V for current peak value n=20 rated value         8.8 kVA           • up to 500 V for current peak value n=20 rated value         1.0 kVA           operating apparent power at AC-6a         4.8 kVA           • up to 500 V for current peak value n=30 rated value         2.5 kVA           • up to 500 V for current peak value n=30 rated value         5.6 kVA           • up to 500 V for current peak value n=30 rated value         5.6 kVA           • up to 500 V for current peak value n=30 rated value         7.6 kVA           • up to 500 V for current peak value n=30 rated value         7.6 kVA           • timited to 1 s witching at zero current maximum         109 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 1 s witching at zero current maximum         128 A; Use minimum cross-section acc. to AC-1 rated value           • imited to 10 s witching at zero current maximum         124 A; Use minimum cross-section acc. to AC-1 rated value           • at AC-1 maximum		
• at 680 V rated value     3.5 kW       operating apparent power at AC-6a     3.8 kVA       • up to 230 V for current peak value n=20 rated value     6.6 kVA       • up to 500 V for current peak value n=20 rated value     8.3 kVA       • up to 500 V for current peak value n=20 rated value     8.3 kVA       • up to 500 V for current peak value n=20 rated value     8.3 kVA       • up to 500 V for current peak value n=30 rated value     2.5 kVA       • up to 500 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     7.6 kVA       • up to 600 V for current peak value n=30 rated value     7.6 kVA       • up to 600 V for current peak value n=30 rated value     7.6 kVA       • up to 600 V for current peak value n=30 rated value     7.6 kVA       • up to 600 V for current neak value n=30 rated value     7.6 kVA       • up to 600 V for current neak value n=30 rated value     7.6 kVA       • up to 600 V for current neak value n=30 rated value     7.6 kVA       • up to 600 V for current neak value n=30 rated value     7.6 kVA       • up to 600 V for current neakinum     108 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     128 A; Use minimum cross-section acc. to AC-1 rated value       • int AC-1 maximum     74 A; Use min		
operating apparent power at AC-6a       3.8 kVA         • up to 230 V for current peak value n=20 rated value       6.6 kVA         • up to 500 V for current peak value n=20 rated value       8.3 kVA         • up to 690 V for current peak value n=20 rated value       8.3 kVA         • up to 630 V for current peak value n=20 rated value       8.3 kVA         • up to 630 V for current peak value n=20 rated value       10.6 kVA         operating apparent power at AC-6a       2.5 kVA         • up to 500 V for current peak value n=30 rated value       2.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       7.6 kVA         short-time withstand current in cold operating state up to 40° *C       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       100 01/h         • at AC-1 maximum       100 00 1/h         • at AC-2 maximum       100 00 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750	<ul> <li>at 400 V rated value</li> </ul>	2.5 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 230 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 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • at AC-1 maximum     • at AC-1 maximum     • at AC-1 maximum     • at AC-2 maximum     • at AC-3 maximum     • at AC-4 maximum     • at AC-3 maximum     • at AC-4 maximum     • at AC-4 maximum	at 690 V rated value	3.5 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 690 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 230 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 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     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Us to 500 V for current peak value n=30 rated value     • Initied 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 60 s switching at zero current maximum     • I to 00 1/h     • at AC-1 maximum     • at AC-1 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-4 maximum     • at AC-	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value       8.3 kVA         • up to 630 V for current peak value n=30 rated value       10.6 kVA         • up to 230 V for current peak value n=30 rated value       2.5 kVA         • up to 500 V for current peak value n=30 rated value       4.4 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 600 V for current peak value n=30 rated value       7.6 kVA         short-time withstand current in cold operating state up to 40° C       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       100 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       92 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         operating frequency       10 000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Controt supply voltage at DC       DC <td><ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul></td> <td>3.8 kVA</td>	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	3.8 kVA
• up to 690 V for current peak value n=20 rated value       10.6 kVA         operating apparent power at AC-Ga       2.5 kVA         • up to 230 V for current peak value n=30 rated value       4.4 kVA         • up to 500 V for current peak value n=30 rated value       5.6 kVA         • up to 560 V for current peak value n=30 rated value       5.6 kVA         • up to 560 V for current peak value n=30 rated value       7.6 kVA         • up to 560 V for current peak value n=30 rated value       7.6 kVA         short-time withstand current in cold operating state up to 40 °C       0         • limited to 1 s switching at zero current maximum       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at AC-2 maximum       1 000 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h <tr< td=""><td><ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul></td><td>6.6 kVA</td></tr<>	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	6.6 kVA
operating apparent power at AC-6a       2.5 kVA         • up to 230 V for current peak value n=30 rated value       4.4 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 690 V for current peak value n=30 rated value       5.5 kVA         • up to 690 V for current peak value n=30 rated value       7.6 kVA         short-time withstand current in cold operating state up to 40° C       000 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       169 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       92 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at AC-2 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control circuit/ Control       Uppe of voltage of the control supply voltage         Uppe of voltage of the contr	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	8.3 kVA
• up to 230 V for current peak value n=30 rated value     • up to 400 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 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 in cold operating state up to     40 °C     • ilmited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • at AC-1 maximum     • at AC-1 maximum     • at AC-1 maximum     1000 1/h     • at AC-3 maximum     * at AC-4 maximum     * at AC-4 maximum     * at AC-3 maximum     * at AC-4 maximum	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.6 kVA
• up to 400 V for current peak value n=30 rated value       4.4 kVA         • up to 500 V for current peak value n=30 rated value       5.5 kVA         • up to 500 V for current peak value n=30 rated value       7.6 kVA         short-time withstand current in cold operating state up to 40°C       7.6 kVA         • limited to 1 s switching at zero current maximum       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       169 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at AC-1 maximum       10000 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       260 1/h         • at AC-4 maximum       260 1/h         • at AC-4 maximu	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value5.5 kVA• up to 690 V for current peak value n=30 rated value7.6 kVAshort-time withstand current in cold operating state up to 40 °C300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum750 1/h• at AC-1 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• control circuit/ Control24 V• perating range factor control supply voltage rated value of magnet col at DC24 V• operating range factor control supply voltage rated value of magnet col at DC24 V• initial value0.8	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.5 kVA
• up to 690 V for current peak value n=30 rated value7.6 kVAshort-time withstand current in cold operating state up to 40°C7.6 kVA• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching frequency•• at DC10 000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• control circuit/ ControlDC• control supply voltage at DC0• rated valueDC• control supply voltage at DC24 V• operating range factor control supply voltage rated value of magnet coll at DC24 V• operating range factor control supply voltage rated value of magnet coll at DC0.8	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	4.4 kVA
short-time withstand current in cold operating state up to 40 °C       a)         • limited to 1 s switching at zero current maximum       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       169 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       92 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       92 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         operating frequency       •         • at AC-1 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       DC         • rated value       24 V         • perating factor control supply voltage rated value of magnet coll at DC       0.8 <td><ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul></td> <td>5.5 kVA</td>	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	5.5 kVA
40 °C       ilimited to 1 s switching at zero current maximum       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       169 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       128 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       92 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 61 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 62 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 62 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at AC-1 maximum       1000 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       DC         • arated value       24 V	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 kVA
• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/h• at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• operating range factor control supply voltage rated value of magnet coil at DC24 V		
• limited to 5 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency10 000 1/h• at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum24 V• operating range factor control supply voltage rated value of magnet coil at DC24 V• rated value0.8		
• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• at DC10 000 1/hoperating frequency10000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• at AC-4 maximum24 V• at AC-4 maximum24 V• at AC-4 maximum24 V	-	
<ul> <li>Iimited to 30 s switching at zero current maximum</li> <li>92 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>Iimited to 60 s switching at zero current maximum</li> <li>74 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>no-load switching frequency         <ul> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>operating frequency         <ul> <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-2 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> </ul> </li> <li>Control circuit/ Control         <ul> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at DC                  <ul> <li>rated value</li> <li>24 V</li> <li>operating range factor control supply voltage rated value of magnet coil at DC                  <ul> <li>initial value</li> <li>0.8</li> <li>at AC-4</li> <li>bc</li> <li>control circuit/ Control</li> <li>bc</li> <li>control supply voltage at DC</li> <li>control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>at AC-4</li> <li>at AC-4</li> <li>at AC-4</li> <li>at AC-4</li></ul></li></ul></li></ul></li></ul>	-	
• limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at DC       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       DC         type of voltage of the control supply voltage       DC         • rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8	-	
no-load switching frequency     10 000 1/h       e at DC     10 000 1/h       operating frequency     1 000 1/h       e at AC-1 maximum     1 000 1/h       e at AC-2 maximum     750 1/h       e at AC-3 maximum     750 1/h       e at AC-4 maximum     250 1/h       control circuit/ Control     250 1/h       type of voltage of the control supply voltage     DC       control supply voltage at DC     e rated value       e rated value     24 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8	-	
• at DC10 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-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• control circuit/ ControlDC• rated value24 V• rated value24 V• initial value0.8		14 A, Use minimum cross-section acc. to AU-1 rated value
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-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDC• rated value24 V• perating range factor control supply voltage rated value of magnet coil at DC0.8		10 000 4/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 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• control circuit/ ControlDCControl circuit/ Control supply voltageDC• rated value24 V• operating range factor control supply voltage rated value of magnet coil at DC0.8		10 000 1/h
• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCcontrol supply voltage at DCPC• rated value24 V• perating range factor control supply voltage rated value of magnet coil at DC0.8		4 000 4/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/ ControlDCcontrol supply voltage at DCPC• rated value24 V• perating range factor control supply voltage rated value of magnet coil at DC0.8		
• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC24 V• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC0.8		
• at AC-4 maximum       250 1/h         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC       24 V         • rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8		
Control circuit/ Control         type of voltage of the control supply voltage       DC         control supply voltage at DC       24 V         • rated value       24 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8		
type of voltage of the control supply voltage     DC       control supply voltage at DC     24 V       • rated value     24 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8		250 1/h
control supply voltage at DC     24 V       o rated value     24 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8		
• rated value     24 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8		DC
operating range factor control supply voltage rated value of magnet coil at DC       0.8		
magnet coil at DC     o initial value     0.8		24 V
• full-scale value 1.1	initial value	0.8
	full-scale value	1.1

design of the surge suppressor     dicke       closing power of magnet coil at DC     4 W       holding power of magnet coil at DC     4 W       closing delay     30 100 ms       • at DC     30 100 ms       opening delay     33 65 ms       • at DC     38 65 ms       arcing time     10 15 ms       control version of the switch operating mechanism     Standard A1 - A2       Auxiliary circuit     10 A       number of NO contacts for auxiliary contacts instantaneous     1       contact     operational current at AC-15       • at 200 V rated value     10 A       • at 600 V rated value     3A       • at 600 V rated value     1A       operational current at DC-12     •       • at 600 V rated value     6A       • at 600 V rated value     6A       • at 10 V rated value     1A       operational current at DC-13     •       • at 24 V rated value     6A       • at 25 V rated value     1A       • at 600 V rated value     2A       • at 24 V rated value     6A       • at 24 V rated value     6A       • at 48 V rated value     6A       • at 24 V rated value     1A       • at 24 V rated value     1A       • at 24 V rated value	
holding power of magnet coll at DC       4 W         closing delay       • at DC         • at DC       30 100 ms         opening delay       • at DC         • at DC       38 65 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       10 15 ms         rumber of NO contacts for auxiliary contacts instantaneous       1         operational current at AC-12 maximum       10 A         operational current at AC-15       0         • at 230 V rated value       3A         • at 300 V rated value       3A         • at 600 V rated value       1A         operational current at DC-12       0         • at 44 V rated value       6A         • at 420 V rated value       6A         • at 600 V rated value       6A         • at 220 V rated value       0.15 A         operational current at DC-13       0A         • at 42 V rated value       0.4         • at 24 V rated value       0.4         • at 24 V rated value       0.4         • at 24 V rated value       0.4         • at 600 V rated value       0.4         • at 24 V rated value	
closing delay       at DC       30 100 ms         opening delay       at DC       38 65 ms         arcing time       10 15 ms       standard A1 - A2         Auxiliary circuit       number of NO contacts for auxiliary contacts instantaneous       1         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A         • at 230 V rated value       10 A         operational current at AC-15       1         • at 200 V rated value       2 A         • at 600 V rated value       2 A         • at 600 V rated value       1 A         operational current at DC-12       10 A         • at 600 V rated value       6 A         • at 600 V rated value       6 A         • at 24 V rated value       1 A         operational current at DC-12       10 A         • at 212 V rated value       6 A         • at 220 V rated value       1 A         operational current at DC-13       1 A         • at 220 V rated value       1 A         • at 220 V rated value       1 A         • at 24 V rated value       2 A         • at 48 V rated value       2 A         • at 48 V rated value       2 A         • at 22	
• at DC     30 100 ms       opening delay	
opening delay       at DC         at DC       38 65 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       1         number of NO contacts for auxiliary contacts instantaneous contact.       1         operational current at AC-12 maximum       10 A         operational current at AC-15	
• at DC     38 65 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 contact     1       operational current at AC-12 maximum     10 A       operational current at AC-15	
arcing time     10 15 ms       control version of the switch operating mechanism     Standard A1 - A2       Auxiliary circuit     1       number of NO contacts for auxiliary contacts instantaneous contact     1       operational current at AC-12 maximum     10 A       operational current at AC-15	
Auxiliary circuit       Standard A1 - A2         Auxiliary circuit       1         number of NO contacts for auxiliary contacts instantaneous contact       1         operational current at AC-12 maximum       10 A         operational current at AC-15       0         • at 230 V rated value       3 A         • at 400 V rated value       2 A         • at 600 V rated value       1 A         operational current at DC-12       0 A         • at 600 V rated value       1 A         operational current at DC-12       0 A         • at 42 V rated value       6 A         • at 43 V rated value       6 A         • at 44 V rated value       1 A         operational current at DC-13       0 A         • at 220 V rated value       1 A         operational current at DC-13       0 A         • at 220 V rated value       1 A         • at 240 V rated value       1 A         • at 600 V rated value       1 A         • at 240 V rated value       1 A         • at 250 V rated value       1 A         • at 240 V rated value       2 A         • at 250 V rated value       2 A         • at 600 V rated value       2 A         • at 600 V rated value	
Auxiliary circuit       1         number of NO contacts for auxiliary contacts instantaneous contact       1         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A         • 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       0         • at 42 V rated value       6 A         • at 20 V rated value       2 A         • at 40 V rated value       6 A         • at 24 V rated value       10 A         • at 25 V rated value       2 A         • at 10 V rated value       2 A         • at 20 V rated value       0.15 A         operational current at DC-13       0 A         • at 48 V rated value       2 A         • at 40 V rated value       2 A         • at 60 V rated value       2 A         • at 40 V rated value       0.3 A         • at 60 V rated value       0.3 A         • at 60 V rated value       0.1 A </td <td></td>	
number of NO contacts for auxiliary contacts instantaneous       1         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A         • at 230 V rated value       10 A         • at 400 V rated value       3 A         • at 500 V rated value       1 A         operational current at DC-12       10 A         • at 690 V rated value       1 A         operational current at DC-12       0 A         • at 24 V rated value       10 A         • at 48 V rated value       6 A         • at 10 V rated value       6 A         • at 220 V rated value       1 A         • at 220 V rated value       1 A         • at 220 V rated value       1 A         • at 220 V rated value       0.15 A         operational current at DC-13       0 A         • at 24 V rated value       2 A         • at 48 V rated value       2 A         • at 48 V rated value       2 A         • at 48 V rated value       0 A         • at 220 V rated value       0 A         • at 48 V rated value       0 A         • at 48 V rated value       0.15 A         operational current at DC-13       0 A         • at 48 V rated value <t< td=""><td></td></t<>	
contact     10 A       operational current at AC-12 maximum     10 A       operational current at AC-15     10 A       • 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     10 A       • at 690 V rated value     1 A       operational current at DC-12     -       • at 24 V rated value     6 A       • at 48 V rated value     6 A       • at 60 V rated value     2 A       • at 10 V rated value     10 A       • at 220 V rated value     2 A       • at 220 V rated value     1 A       • at 60 V rated value     1 A       • at 220 V rated value     1 A       • at 220 V rated value     1 A       • at 24 V rated value     0 A       • at 60 V rated value     10 A       • at 60 V rated value     2 A       • at 60 V rated value     2 A       • at 24 V rated value     2 A       • at 60 V rated value     0.9 A       • at 60 V rated value     0.1 A	
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• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 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 A• operational current at DC-132 A• at 24 V rated value2 A• at 24 V rated value2 A• at 600 V rated value2 A• at 24 V rated value2 A• at 24 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 25 V rated value0.9 A• at 110 V rated value0.3 A• at 220 V rated value0.1 A• at 600 V rated value0.1 A• at 6	
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at 60 V rated value6 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 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.16 A• at 22 V rated value10 A• at 24 V rated value2 A• at 25 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A• at 600 V rated value11 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsUL/CSA ratings	
• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A• at 24 V rated value10 A• at 24 V rated value2 A• at 48 V rated value2 A• at 600 V rated value2 A• at 600 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A• at 600 V rated value1 A• at 125 V rated value0.1 A• at 600 V rated value1 A• at 600 V rated value0.1 A• at 600 V rated value1 A• at 600 V rated value0.1 A• at	
• 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 600 V rated value2 A• at 60 V rated value1 A• at 60 V rated value0.9 A• at 125 V rated value0.3 A• at 600 V rated value1 A• at 220 V rated value1 A• at 125 V rated value1 A• at 125 V rated value0.1 A• at 600 V rated value0.1 A <t< td=""><td></td></t<>	
• 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 10 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value1 A• at 220 V rated value1.1 A• at 220 V rated value1.1 A• at 125 V rated value1.1 A• at 125 V rated value1.1 A• at 220 V rated value1.1 A• at 600 V rated value1.1 A• at 125 V rated value1.1 A• at 125 V rated value1.1 A• at 120 V rated value1.1 A	
• at 600 V rated value0.15 Aoperational current at DC-13I• 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 value1 A• at 125 V rated value1 A• at 125 V rated value1 A• at 125 V rated value1.1 A• at 125 V rated value1.1 A• at 125 V rated value1.1 A• at 220 V rated value1.1 A• at 600 V rated value1.1 A• at 600 V rated value0.1 A• at 600 V rated value1.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value1.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value1.1 A• at 600 V rated value0.1 A <td></td>	
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 Atortated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor	
• at 24 V rated value10 A• at 24 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• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsI faulty switching per 100 million (17 V, 1 mA)	
• at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 110 V rated value       1 A         • at 125 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 600 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       Infaulty switching per 100 million (17 V, 1 mA)	
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> </ul>	
at 125 V rated value     o.9 A     o.3 A     o.3 A     o.1 A     contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
at 220 V rated value     0.3 A     0.1 A	
• at 600 V rated value     0.1 A       contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UL/CSA ratings     Image: Contact reliability of 3-phase AC motor	
contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
full-load current (FLA) for 3-phase AC motor	
a at 480 V rated value	
• at 480 V rated value 14 A	
• at 600 V rated value 11 A	
yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value 1 hp	
- at 230 V rated value 2 hp	
• for 3-phase AC motor	
- at 200/208 V rated value 3 hp	
- at 220/230 V rated value 5 hp	
— at 460/480 V rated value 10 hp	
- at 575/600 V rated value 10 hp	
contact rating of auxiliary contacts according to UL A600 / Q600	
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)	
- with type of assignment 2 required gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	
Installation/ mounting/ dimensions	
+/-180° rotation possible on vertical mounting surface; can be tilted forward	
backward by +/- 22.5° on vertical mounting surface	d and
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 6	d and
side-by-side mounting     Yes	
height 70 mm	

width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	0 mm
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	10 mm
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-tope terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	Spring-type terminals
solid	2x (0.5 4 mm²)
solid     solid	2x (0.5 4 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0,5 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
connectable conductor cross-section for main contacts	2x (0.0 2.0 mm)
solid	0.5 4 mm²
stranded	0.5 4 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
connectable conductor cross-section for auxiliary contacts	0.0 2.0 mm
solid or stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	0.0 2.0 mm
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0,5 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 12)
AWG number as coded connectable conductor cross section	
for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
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 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
*	

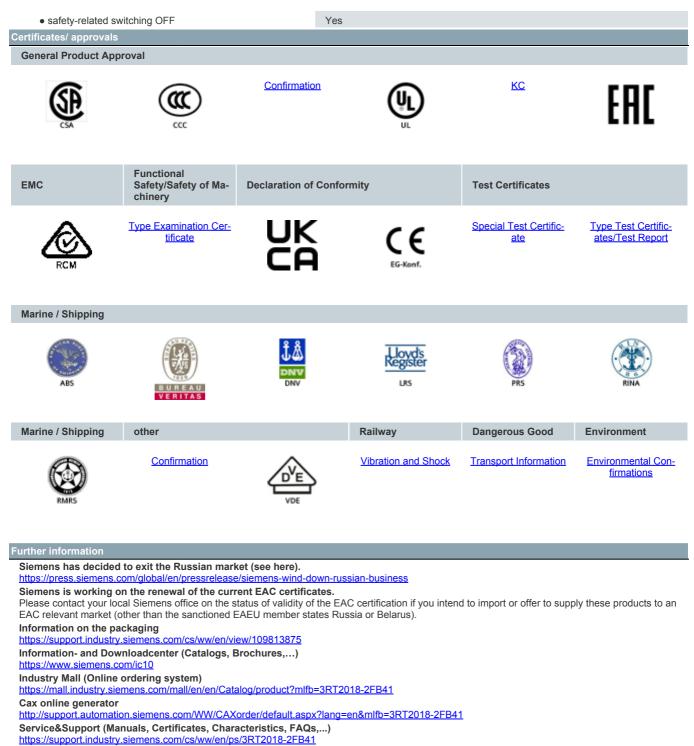


Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

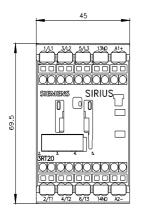
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2018-2FB41&lang=en

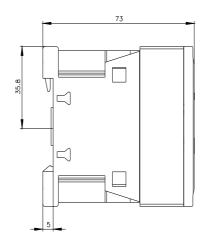
Characteristic: Tripping characteristics, I2t, Let-through current

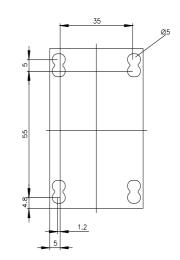
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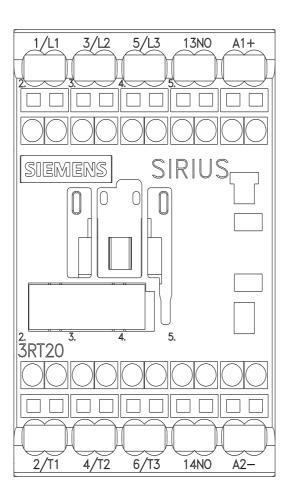
Further characteristics (e.g. electrical endurance, switching frequency)

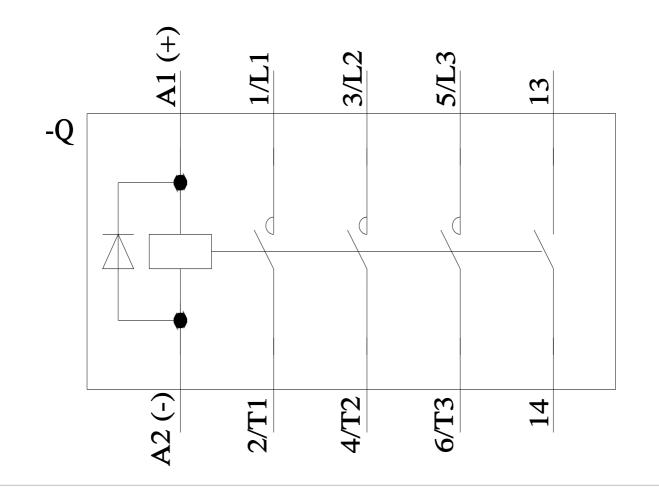
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