## SIEMENS

## Data sheet

## 3RT2037-3AF04



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
function module for communication	No
<ul> <li>auxiliary switch</li> </ul>	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
<ul> <li>without load current share typical</li> </ul>	16 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	690 V
of auxiliary circuit with degree of pollution 3 rated value	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	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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

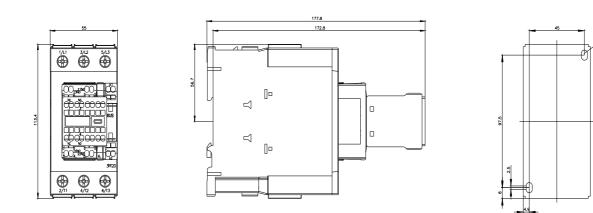
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	80 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated	70 A
value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	53.9 A
	56.9 A
— up to 230 V for current peak value n=20 rated value	
— up to 400 V for current peak value n=20 rated value	56.9 A 56.9 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	47 A
at AC-6a	4/ A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	38 A
— up to 200 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated	25 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

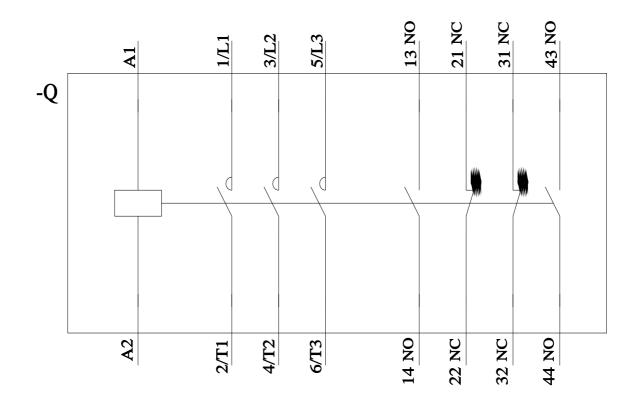
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• win 2 current path in series at DC-3 at DC-5         5           - at 24 V rade value         55 Å           - at 110 V rade value         25 Å           - at 110 V rade value         5 Å           - at 440 V rade value         0.27 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.5 Å           - at 440 V rade value         55 Å           - at 440 V rade value         55 Å           - at 440 V rade value         0.38 Å           - at 440 V rade value         30 kW           - at 440 V rade value         30 kW           - at 420 V rade value         37 kW           - at 400 V rade value         37 kW <td>— at 440 V rated value</td> <td>0.1 A</td>	— at 440 V rated value	0.1 A
	— at 600 V rated value	0.06 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
- all 10 Vinited value at 440 Vinited value b 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 60 Vinited value 55 A - at 24 Vinited value 55 A - at 24 Vinited value 55 A - at 70 Vinited value 56 A - at 700 Vinited value 57 A - at 400 Vinited value 58 A - at 700 Vinited value 59 A - at 700 Vinited value 50 Vinited value	— at 24 V rated value	55 A
	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
	— at 220 V rated value	5 A
• with 3 current path in series at DC-3 at DC-5     55 A       - at 20 V rated value     55 A       - at 110 V rated value     55 A       - at 120 V rated value     55 A       - at 440 V rated value     66 A       - at 420 V rated value     0.35 A       operating power     0.35 A       - at 600 V rated value     0.35 A       operating power     0.15 KW       - at 230 V rated value     30 KW       - at 230 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     37 KW       - at 600 V rated value     30 KW       - at 500 V rated value     30 kW       - at 500 V rated value     30 kW       - at 600 V rated value     30 kW       opoperating poperator     30 kW <tr< td=""><td>— at 440 V rated value</td><td>0.27 A</td></tr<>	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	55 A
	— at 60 V rated value	55 A
	— at 110 V rated value	55 A
	— at 220 V rated value	25 A
operating power       at AC-2 at 400 V rated value       30 kW         • at AC-3	— at 440 V rated value	0.6 A
	— at 600 V rated value	0.35 A
	operating power	
		30 kW
	• at AC-3	
at 400 V rated value30 kW at 500 V rated value37 kW at 230 V rated value37 kW at 230 V rated value15. kW at 400 V rated value30 kW at 630 V rated value30 kW at 630 V rated value37 kW at 630 V rated value20 kWoperating power for approx. 20000 operating cycles at AC at 640 V rated value20 kWoperating apparent power at AC-6820 kW operating apparent power at AC-6850 kW op to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=20 rated value35 kVA op to 400 V for current peak value n=30 rated value36 k kVA up to 200 V for current peak value n=30 rated value26 kVA op to 400 V for current peak value n=30 rated value28 kVA up to 580 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op time bas value n=30 rated value28 kVA <td>— at 230 V rated value</td> <td>18.5 kW</td>	— at 230 V rated value	18.5 kW
at 890 V rated value37 kW• at AC-3e at 230 V rated value30 kW at 400 V rated value30 kW at 690 V rated value37 kW at 690 V rated value20 kWoperating paperent power at AC-6a22.6 kVA up to 500 V for current peak value n=20 rated value39.4 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=30 rated value56.1 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA </td <td>— at 400 V rated value</td> <td>30 kW</td>	— at 400 V rated value	30 kW
• at AC-3eI at 230 V rated value15.5 kW- at 400 V rated value30 kW- at 600 V rated value37 kW- at 600 V rated value37 kW- at 600 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-414.7 kW• at 400 V rated value14.7 kW• at 600 V rated value20 kWoperating apparent power at AC-6a20 kW• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 690 V for current peak value n=30 rated value22.8 kVA• up to 600 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current no current maximum1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 ra	— at 500 V rated value	37 kW
at 230 V rated value18.5 kW at 400 V rated value30 kW at 500 V rated value37 kWoperating power for approx. 20000 operating cycles at AC- 47 kW• at 400 V rated value14.7 kWoperating apparent power at AC-6a22 22 kWA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value50.1 kVA• up to 500 V for current peak value n=20 rated value51.4 kVA• up to 500 V for current peak value n=30 rated value52.4 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• uimited to 1 s switching at zero current maximum33.6 k.U se minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum35.0 k.U se minimum cross-	— at 690 V rated value	37 kW
	• at AC-3e	
	— at 230 V rated value	18.5 kW
	— at 400 V rated value	30 kW
operating power for approx. 20000 operating cycles at AC-4       14.7 kW         • at 400 V rated value       20 kW         operating apparent power at AC-6a       20 kW         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       46.1 kVA         • up to 500 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 500 V for current peak value n=30 rated value       56.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40° C       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1s switching at zero current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at	— at 500 V rated value	37 kW
4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27	— at 690 V rated value	37 kW
4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27		
• at 690 V rated value       20 kW         operating apparent power at AC-6a       22.6 kVA         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 600 V for current peak value n=20 rated value       39.4 kVA         • up to 690 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       51.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40°C       45.3 kVA         • limited to 1 s switching at zero current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value		
operating apparent power at AC-6a22.6 kVA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value49.2 kVA• up to 690 V for current peak value n=20 rated value50.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value22.6 kVA• up to 500 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value28.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value45.3 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA• up to 500 V for current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum20 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value	<ul> <li>at 400 V rated value</li> </ul>	14.7 kW
• up to 230 V for current peak value n=20 rated value       22.6 kVA         • up to 400 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       50.1 kVA         operating apparent power at AC-6a       6         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       730 A; Use minimum cross-section acc. to AC-1 rated value </td <td><ul> <li>at 690 V rated value</li> </ul></td> <td>20 kW</td>	<ul> <li>at 690 V rated value</li> </ul>	20 kW
up to 400 V for current peak value n=20 rated value39.4 kVAup to 500 V for current peak value n=20 rated value49.2 kVAup to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6aup to 230 V for current peak value n=30 rated value15.1 kVAup to 400 V for current peak value n=30 rated value26.2 kVAup to 500 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C40.2 Cilmited to 1 s switching at zero current maximum1055 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 50 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum270 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum270 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum200 1/h	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       520 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 S switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul></td> <td>22.6 kVA</td>	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	22.6 kVA
• up to 690 V for current peak value n=20 rated value     for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 500 V for current peak value n=30 rated value     26.2 kVA     iup to 500 V for current peak value n=30 rated value     32.8 kVA     iup to 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to     40 °C     ilimited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     at AC-     sound thing frequency     i at AC-     for at AC-     for at AC-     for at AC-     sound thing     i at AC-2 maximum     at AC-3 maximum     i at AC-3 maximum     current     at AC-4 maximum     zurent     at AC-4 maximum     zurent	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	39.4 kVA
operating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value15.1 kVA• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	49.2 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>15.1 kVA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>26.2 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>32.8 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>45.3 kVA</li> <li>short-time withstand current in cold operating state up to</li> <li>40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S20 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>s to 00 1/h</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	56.1 kVA
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• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	15.1 kVA
• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	26.2 kVA
short-time withstand current in cold operating state up to 40 °C1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	32.8 kVA
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• at AC-2 maximum       400 1/h         • at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h		
• at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h		
• at AC-3e maximum         700 1/h           • at AC-4 maximum         200 1/h		
• at AC-4 maximum 200 1/h		
Control circuit/ Control		200 1/h
	Control circuit/ Control	

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC • at 50 Hz	190 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	65 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
for 3-phase AC motor	00 hz
- at 200/208 V rated value	20 hp
- at 220/230 V rated value	20 hp
— at 460/480 V rated value	
— at 575/600 V rated value	50 hp 50 hp

contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	114 mm
width	55 mm
depth	178 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
- finely stranded without core end processing	2x (0.5 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
AWG number as coded connectable conductor cross section	
<ul> <li>for main contacts</li> </ul>	18 1
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
positively driven operation according to IEC 60947-5-1	No

310 value with high d	emand rate according to SN	1 3 1 0 2 0 1 (	000 000		
proportion of dange	emand rate according to SN				
	nd rate according to SN 3192	20 40	%		
	0				
	ind rate according to SN 319		% 0 FIT		
	ow demand rate according t				
61508	t interval or service life acco	Ĵ.			
	on the front according to I				
-	the front according to IEC	60529 fin	ger-safe, for vertical contact	from the front	
suitability for use					
<ul> <li>safety-related s</li> </ul>		Ye	2S		
ertificates/ approvals					
	Confirmation	-	-	×0	
SF.			(U) U	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Con	formity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
KMRS RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations
rther information					
	d to exit the Russian mark		and an investigation		
Siemens is working Please contact your lo EAC relevant market information on the p https://support.industr nformation- and Do https://www.siemens.o ndustry Mall (Online https://mall.industry.si	(other than the sanctioned E backaging y.siemens.com/cs/ww/en/vie wnloadcenter (Catalogs, E com/ic10 e ordering system) iemens.com/mall/en/en/Cata	ent EAC certificates. tatus of validity of the I EAEU member states F ew/109813875 Brochures,)	EAC certification if you intene Russia or Belarus).	d to import or offer to supp	bly these products to ar
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