## SIEMENS

## Data sheet

## 3RT2037-3AC20



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S2			
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>	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>	17.2 W			
insulation voltage				
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	6 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V			
shock resistance at rectangular impulse				
• at AC	11.8g / 5 ms, 7.4g / 10 ms			
shock resistance with sine pulse				
• at AC	18.5g / 5 ms, 11.6g / 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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	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> </ul>	53.9 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	56.9 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	56.9 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
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	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— 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
with 3 current paths in series at DC-1	55 A
— 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>	

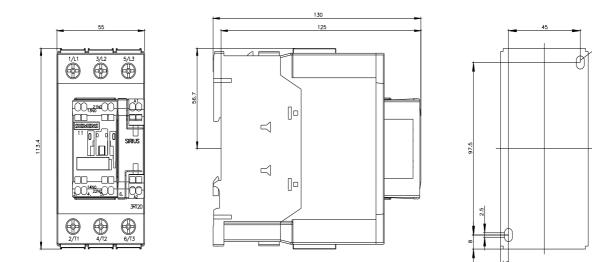
— at 24 V rated value	35 A				
— at 60 V rated value	6 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.1 A				
— at 600 V rated value	0.06 A				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	55 A				
— at 60 V rated value	55 A 45 A				
— at 110 V rated value	45 A 25 A				
— at 220 V rated value					
	5 A 0 27 A				
- at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
• with 3 current paths in series at DC-3 at DC-5					
— 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				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.35 A				
operating power					
• at AC-2 at 400 V rated value	30 kW				
• at AC-3					
— at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— 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				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
operating power for approx. 200000 operating cycles at AC- 4					
at 400 V rated value	14.7 kW				
at 690 V rated value	20 kW				
	20 KW				
operating apparent power at AC-6a	00.013/4				
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	22.6 kVA				
	39.4 kVA				
• up to 400 V for current peak value n=20 rated value					
	49.2 kVA				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>					
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<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> <li>at AC</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 800 1/h 400 1/h				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 800 1/h 400 1/h 700 1/h				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 800 1/h 400 1/h 700 1/h				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 800 1/h 400 1/h 700 1/h				

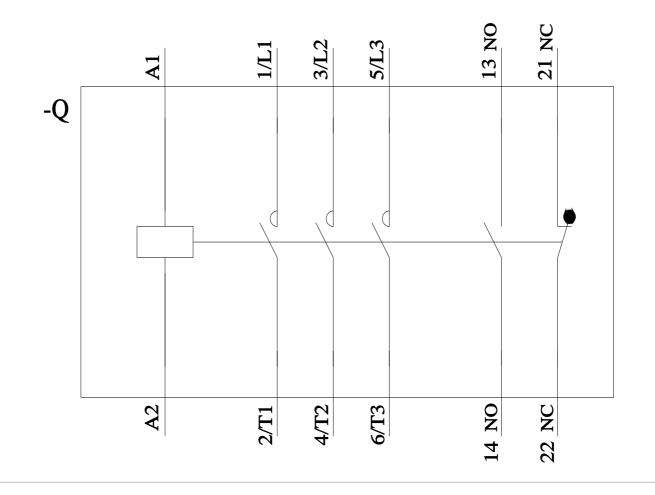
type of voltage of the control supply voltage	AC				
control supply voltage at AC					
• at 50 Hz rated value	24 V				
• at 60 Hz rated value	24 V				
operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
• at 60 Hz	0.85 1.1				
apparent pick-up power of magnet coil at AC					
• at 50 Hz	210 VA				
• at 60 Hz	188 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.69				
• at 60 Hz	0.65				
apparent holding power of magnet coil at AC					
• at 50 Hz	17.2 VA				
• at 60 Hz	16.5 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.36				
• at 60 Hz	0.39				
closing delay					
• at AC	10 80 ms				
opening delay	10 00 115				
• at AC	10 18 ms				
	10 10 ms				
arcing time	Standard A1 - A2				
control version of the switch operating mechanism Auxiliary circuit	Stanuaru AT - Az				
	1				
number of NC contacts for auxiliary contacts instantaneous contact	1				
number of NO contacts for auxiliary contacts instantaneous contact	1				
operational current at AC-12 maximum	10 A				
operational current at AC-12 maximum operational current at AC-15	10 A				
· · · · · · · · · · · · · · · · · · ·	10 A 10 A				
operational current at AC-15					
operational current at AC-15 • at 230 V rated value	10 A				
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul>	10 A 3 A				
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul>	10 A 3 A 2 A				
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	10 A 3 A 2 A				
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	10 A 3 A 2 A 1 A				
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	10 A 3 A 2 A 1 A 10 A				
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	10 A 3 A 2 A 1 A 10 A 6 A				
<ul> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul> </li> </ul>	10 A 3 A 2 A 1 A 10 A 6 A 6 A				
<ul> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul> </li> </ul>	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A				
<ul> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul> </li> </ul>	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A				
<ul> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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> </ul> </li> </ul>	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
<ul> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 60 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 600 V rated value</li> </ul> </li> </ul>	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 25 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 125 V rated value         • at 220 V rated value         • at 240 V rated value         • at 240 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 24 V rated value         • at 125 V rated value         • at 24 V rated value         • at 125 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 600 V rated value         • at 48 V rated value         • at 24 V rated value         • at 24 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A				
operational current at AC-15• at 230 V rated value• at 400 V rated value• at 500 V rated value• at 500 V rated value• at 690 V rated value• at 24 V rated value• at 48 V rated value• at 60 V rated value• at 110 V rated value• at 125 V rated value• at 220 V rated value• at 48 V vated value• at 48 V rated value• at 400 V rated value• at 125 V rated value• at 220 V rated value• at 48 V rated value• at 600 V rated value• at 600 V rated value• at 48 V rated value• at 60 V rated value• at 60 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A				
operational current at AC-15• at 230 V rated value• at 400 V rated value• at 500 V rated value• at 500 V rated value• at 690 V rated value• at 24 V rated value• at 48 V rated value• at 60 V rated value• at 110 V rated value• at 220 V rated value• at 600 V rated value• at 48 V rated value• at 125 V rated value• at 24 V rated value• at 600 V rated value• at 600 V rated value• at 600 V rated value• at 10 V rated value• at 24 V rated value• at 24 V rated value• at 24 V rated value• at 10 V rated value• at 48 V rated value• at 40 V rated value• at 40 V rated value• at 410 V rated value• at 110 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 40 V rated value         • at 24 V rated value         • at 40 V rated value         • at 24 V rated value         • at 60 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 20 V rated value         • at 215 V rated value         • at 600 V rated value         • at 600 V rated value         • at 100 V rated value         • at 210 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 110 V rated value         • at 125 V rated value         • at 125 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				
operational current at AC-15• at 230 V rated value• at 400 V rated value• at 500 V rated value• at 500 V rated value• at 690 V rated value• at 24 V rated value• at 48 V rated value• at 48 V rated value• at 60 V rated value• at 110 V rated value• at 125 V rated value• at 220 V rated value• at 600 V rated value• at 24 V rated value• at 125 V rated value• at 220 V rated value• at 600 V rated value• at 24 V rated value• at 60 V rated value• at 60 V rated value• at 60 V rated value• at 10 V rated value• at 10 V rated value• at 220 V rated value• at 600 V rated value• at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				
operational current at AC-15• at 230 V rated value• at 400 V rated value• at 400 V rated value• at 500 V rated value• at 690 V rated value• at 24 V rated value• at 24 V rated value• at 48 V rated value• at 60 V rated value• at 110 V rated value• at 125 V rated value• at 220 V rated value• at 220 V rated value• at 600 V rated value• at 600 V rated value• at 220 V rated value• at 24 V rated value• at 60 V rated value• at 60 V rated value• at 10 V rated value• at 125 V rated value• at 220 V rated value• at 220 V rated value• at 600 V rated value• at	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 10 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value         • at 25 V rated value         • at 24 V rated value         • at 25 V rated value         • at 10 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 6 A 1 A 0.15 A 10 A 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 10 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 25 V rated value         • at 24 V rated value         • at 20 V rated value         • at 60 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 480 V rated value         • at 480 V rated value         • at 480 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1				
operational current at AC-15• at 230 V rated value• at 400 V rated value• at 400 V rated value• at 500 V rated value• at 690 V rated value• at 690 V rated value• at 24 V rated value• at 48 V rated value• at 60 V rated value• at 110 V rated value• at 125 V rated value• at 220 V rated value• at 220 V rated value• at 24 V rated value• at 25 V rated value• at 220 V rated value• at 24 V rated value• at 25 V rated value• at 20 V rated value• at 20 V rated value• at 24 V rated value• at 25 V rated value• at 60 V rated value• at 24 V rated value• at 60 V rated value• at 24 V rated value• at 60 V rated value• at 48 V rated value• at 60 V rated value• at 60 V rated value• at 110 V rated value• at 220 V rated value• at 600 V rated value• at 480 V rated value• at 480 V rated value• at 600 V rated value• at 480 V rated value• at 480 V rated value• at 600 V rated value• a	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 6 A 1 A 0.15 A 10 A 1 A 0.2 A 1 A 0.3 A 0.3 A 0.1 A 1 A 0.5 A 1 5 A				
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 10 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 25 V rated value         • at 24 V rated value         • at 20 V rated value         • at 60 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 480 V rated value         • at 480 V rated value         • at 480 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 6 A 1 A 0.15 A 10 A 1 A 0.2 A 1 A 0.3 A 0.3 A 0.1 A 1 A 0.5 A 1 5 A				

— at 230 V rated value	10 hp				
• for 3-phase AC motor					
— at 200/208 V rated value	20 hp				
— at 220/230 V rated value	20 hp				
— at 460/480 V rated value	50 hp				
— at 575/600 V rated value	50 hp				
contact rating of auxiliary contacts according to UL	A600 / P600				
Short-circuit protection					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)				
- with type of assignment 2 required	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				
side-by-side mounting	Yes				
height	114 mm				
width	55 mm				
depth	130 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					
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²				
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm <sup>2</sup>				
<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 mm <sup>2</sup> )				
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )				
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.0 14)				
AWG number as coded connectable conductor cross					
section					

<ul> <li>for main contacts</li> </ul>	S		18 1			
<ul> <li>for auxiliary cont</li> </ul>	acts		20 14			
Safety related data						
product function						
<ul> <li>mirror contact ac</li> </ul>	ccording to IEC 60947-4-1	47-4-1 Yes				
<ul> <li>positively driven</li> </ul>	<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>					
B10 value with high demand rate according to SN 31920		1 000 000				
proportion of danger	proportion of dangerous failures					
<ul> <li>with low demand</li> </ul>	with low demand rate according to SN 31920		40 %			
with high demand rate according to SN 31920		73 %				
failure rate [FIT] with lo	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		20 a				
61508 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	<b>.</b>		0.			
<ul> <li>safety-related sw</li> </ul>	vitching OFF		Yes			
Certificates/ approvals						
General Product App	roval					
General i roddot App	i ovai					
(SP)		Confirmation	n		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conform	iity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA		CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping						
ABS	BUREAU VERITAS			Llovd's Register uxs	PRS	RINA
Marine / Shipping	other			Railway	Dangerous Good	Environment
RMRS	<u>Confirmation</u>	<u>Confirmation</u>	n	Vibration and Shock	Transport Information	Environmental Con- firmations
Further information						
Further information	to exit the Russian mark	(see hero)				
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business						
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging						
https://support.industry.siemens.com/cs/ww/en/view/109813875						
Information- and Downloadcenter (Catalogs, Brochures,)						
https://www.siemens.com/ic10 Industry Mall (Online ordering system)						
https://mall.industry.sie	mens.com/mall/en/en/Cata	alog/product?mlfb=	<u>=3RT20</u> 3	7-3AC20		
Cax online generator						
	on.siemens.com/WW/CAX			1&mlfb=3RT2037-3AC2	<u>D</u>	
Service&Support (Ma https://support.industrv	nuals, Certificates, Chara siemens.com/cs/ww/en/ps	acteristics, FAQs, <u>s/3RT2037-</u> 3AC20	,)			
	luct images, 2D dimensio		-	device circuit diagram	s, EPLAN macros,)	

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