## SIEMENS

## Data sheet

## 3RT2036-1NP34



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, screw 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			
<ul> <li>function module for communication</li> </ul>	No		
auxiliary switch	No		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	12 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 W		
<ul> <li>without load current share typical</li> </ul>	1 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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	6.1g / 5 ms, 3.7g / 10 ms		
• at DC	6.1g / 5 ms, 3.7g / 10 ms		
shock resistance with sine pulse			
• at AC	9.6g / 5 ms, 5.8g / 10 ms		
• at DC	9.6g / 5 ms, 5.8g / 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		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8		
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	70 A
value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	61.6 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	41.5 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	43.2 A
— up to 400 V for current peak value n=20 rated value	43.2 A
— up to 500 V for current peak value n=20 rated value	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	28.8 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 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	24 A
• at 690 V rated value	20 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
	007

	— at 220 V rated value	45 A			
+ # 1 current path # 10-2 al DC-3>- al BO Visited value3A- al ZO Visited value0.1A- al ZO Visited value0.0B- al ZO Visited value0.0B- al ZO Visited value0.0B- al ZO Visited value25A- al ZOV Visited					
- af 24 V rated value35 A- af 620 V rated value1A- af 420 V rated value0.0 A- af 630 V rated value0.05 A- af 630 V rated value0.05 A- af 630 V rated value55 A- af 630 V rated value55 A- af 630 V rated value25 A- af 630 V rated value50 A- af 630 V rated value50 A- af 630 V rated value50 A- af 640 V rated value52 A- af 640 V rated value22 kW- af 640 V rated value52 kW- af 640 V rated value52 kW- af 640 V rated value52 kW- af 640 V rated value72 kWA- af 640 V rated value74 kWA <t< td=""><td></td><td>1.4 A</td></t<>		1.4 A			
	-				
- ef 220 Vriled value1 A- ef 420 Vriled value0.66 A• with 2 current paths in series at DC3 at DC355 A- at 60 Vriled value55 A- at 60 Vriled value25 A- at 70 Vriled value26 A- at 70 Vriled value27 A- at 720 Vriled value0.16 A- at 720 Vriled value55 A- at 720 Vriled value55 A- at 720 Vriled value0.16 A- at 720 Vriled value55 A- at 720 Vriled value75 A- at 720 Vriled value <t< td=""><td></td><td></td></t<>					
- el 440 Vrisido value0.1 Å- el 400 Vrisido value0.06 Å- el 400 Vrisido value55 Å- el 424 Vrisido value55 Å- el 424 Vrisido value25 Å- el 410 Vrisido value26 Å- el 440 Vrisido value0.016 Å- el 440 Vrisido value0.016 Å- el 440 Vrisido value0.016 Å- el 440 Vrisido value55 Å- el 440 Vrisido value56 Å- el 440 Vrisido value56 Å- el 440 Vrisido value0.64 Å- el 440 Vrisido value22 Å- el 440 Vrisido value22 Å- el 440 Vrisido value22 Å- el 450 Vrisido value23 Å- el 450 Vrisido value23 Å- el 450 Vrisido value24 Å- el 450 Vrisido value24 Å-					
• with 2 corrent paths in series at DC-3 at DC-3           - at 24 Vinated value         55 A           - at 24 Vinated value         25 A           - at 240 Vinated value         25 A           - at 240 Vinated value         25 A           - at 240 Vinated value         26 A           - at 240 Vinated value         0.27 A           - at 240 Vinated value         0.27 A           - at 240 Vinated value         0.27 A           - at 240 Vinated value         55 A           - at 240 Vinated value         55 A           - at 240 Vinated value         55 A           - at 240 Vinated value         0.35 A           - at 240 Vinated value         0.35 A           - at 240 Vinated value         0.35 A           - at 250 Vinated value         0.35 A           - at 250 Vinated value         22 kW           - at 260 Vinated value         22 kW					
- af 24 Yindra Vaula55 A- af 60 Yindra Vaula45 A- af 40 Vindra Vaula52 A- af 220 Vindra Vaula52 A- af 420 Vindra Vaula52 A- af 420 Vindra Vaula52 A- af 400 Vindra Vaula55 A- af 400 Vindra Vaula55 A- af 400 Vindra Vaula55 A- af 100 Vindra Vaula55 A- af 400 Vindra Vaula22 KW- af 600 Vindra Vaula23 KW- af 600 Vindra Vaula24 KW- af 600 Vindra Vaula23 KW- af 600 Vindra Vaula23 KW- af 600 Vindra Vaula24 KW- af 600 Vindra Vaula24 KW </td <td></td> <td>0.06 A</td>		0.06 A			
- at 100 V rated value45 A- at 110 V rated value25 A- at 440 V rated value0.27 A- at 440 V rated value0.27 A- at 440 V rated value0.27 A- at 60 V rated value0.27 A- at 60 V rated value55 A- at 60 V rated value55 A- at 60 V rated value0.5 A- at 24 V rated value0.6 A- at 240 V rated value0.6 A- at 200 V rated value0.6 A- at 200 V rated value0.6 A- at 200 V rated value0.6 A- at 600 V rated value2.2 kW- at 600 V rated value2.0 kW- at 600 V rated va	-				
• with 3 current paths in series at DC-3 at DC-59- at 24 V rated value55 A- at 10 V rated value55 A- at 10 V rated value55 A- at 230 V rated value0.6 A- at 440 V rated value0.6 A- at 600 V rated value0.6 A- at 600 V rated value0.6 A- at 600 V rated value22 kW• at AC 2 at 400 V rated value15 kW- at 600 V rated value22 kW- at 600 V rated value20 kW- at 600 V rated value12 kW- at 600 V rated value20 kW- at 600 V rated value n=20 rated value20 kW- at 600 V rated value n=20 rated value20 kW- at 600 V for current pack value n=20 rated value20 kW- at 600 V for current pack value n=30 rated value11 kWA- at 600 V for current pack value n=30 rated value20 kW- at 600 V for current pack value n=30 rated value<					
		0.16 A			
	•				
- at 110 V rated value55 Å- at 220 V rated value25 Å- at 240 V rated value0.8 Å- at 6000 V rated value0.35 Åoperating power2 2 kW- at 230 V rated value2 2 kW- at 230 V rated value22 kW- at 230 V rated value22 kW- at 300 V rated value22 kW- at 6300 V rated value20 kW- at 6300 V rated value20 kW- at 6300 V rated value20 kW- at 6300 V fracturent pesk value n=20 rated value29 sVA- up to 600 V for current pesk value n=20 rated value29 sVA- up to 600 V for current pesk value n=30 rated value29 sVA- up to 500 V for current pesk value n=30 rated value29 sVA- up to 500 V for current pesk value n=30 rated value29 sVA- up to 500 V for current pesk value n=30 rated value24 sVA- up to 500 V for current pesk value n=30 rated value24 sVA- up to 500 V for current pesk value n=30 rated value24 sVA </td <td></td> <td></td>					
at 600 V rated value0.35 Aoperating power22 kW- at 230 V rated value25 kW at 230 V rated value22 kW at 600 V rated value22 kW					
operating power       22 kW         • at AC-2 at 400 V rated value       22 kW         • at 230 V rated value       15 kW         - at 400 V rated value       22 kW         - at 690 V rated value       22 kW         - at 400 V rated value       22 kW         - at 400 V rated value       22 kW         - at 400 V rated value       22 kW         operating power for approx. 20000 operating cycles at AC-49       42 kW         • at 400 V rated value       12.6 kW         • at 400 V rated value       12.6 kW         • oup to 200 V for current peak value n=20 rated value       29 kVA         • up to 500 V for current peak value n=20 rated value       29 kVA         • up to 500 V for current peak value n=30 rated value       24 kVA         • up to 500 V for current peak value n=30 rated value       28 kVA         • up to 500 V for current peak value n=30 rated value       28 kVA         • up to 500 V for current peak value n=30 rated value       28 kVA      <					
• at AC-2 at 400 V rated value22 kW• at AC-315 kW- at 230 V rated value22 kW- at 600 V rated value12.6 kW- at 600 V rated value17.2 kVA- up to 600 V for current peak value n=20 rated value29.8 kVA- up to 600 V for current peak value n=20 rated value28.6 kVA- up to 500 V for current peak value n=30 rated value19.8 kVA- up to 600 V for current peak value n=30 rated value24.9 kVA- up to 600 V for current peak value n=30 rated value24.9 kVA- up to 600 V for current peak value n=30 rated value28.6 kVA- up to 600 V for current peak value n=30 rated value28.6 kVA- up to 500 V for current peak value n=30 rated value29.9 kVA- up to 600 V for current peak value n=30 rated value29.9 kVA- up to 600 V for current peak value n=30 rated value29.9 kVA- up t		U.35 A			
		22 KW			
at 400 V rated value22 kW at 690 V rated value22 kW at 690 V rated value22 kW at 690 V rated value22 kW at 400 V rated value22 kW at 690 V rated value12.6 kW at 690 V rated value18.2 kWoperating power for approx. 20000 operating cycles at AC-617.2 kVA up to 200 V for current peak value n=20 rated value29.8 kVA up to 400 V for current peak value n=20 rated value29.8 kVA up to 500 V for current peak value n=20 rated value29.8 kVA up to 500 V for current peak value n=30 rated value29.8 kVA up to 530 V for current peak value n=30 rated value29.8 kVA up to 530 V for current peak value n=30 rated value29.8 kVA up to 530 V for current peak value n=30 rated value29.8 kVA up to 530 V for current peak value n=30 rated value29.8 kVA up to 530 V for current peak value n=30 rated value29.8 kVA up to 530 V for current peak value n=30 rated value29.8 kVA up to 630 V for current peak value n=30 rated value29.8 kVA up to 630 V for current peak value n=30 rated value29.8 kVA up to 630 V for current peak value n=30 rated value29.8 kVA up to 630 V for current peak value n=30 rated value <t< td=""><td></td><td></td></t<>					
at 500 V rated value22 kW at 600 V rated value22 kW at 400 V rated value22 kW at 500 V rated value22 kW at 600 V rated value12.6 kW at 600 V rated value n=20 rated value29.8 kVA operating apparent power at AC-6a					
at 690 V rated value22 kW- at AC-3e at 400 V rated value22 kW at 690 V rated value12.6 kW at 690 V rated value12.8 kW or to 500 V for current peak value n=20 rated value17.2 kVA up to 520 V for current peak value n=20 rated value29.9 kVA up to 520 V for current peak value n=20 rated value29.9 kVA up to 520 V for current peak value n=20 rated value29.8 kVA up to 520 V for current peak value n=20 rated value29.8 kVA up to 530 V for current peak value n=30 rated value24.8 kVA up to 630 V for current peak value n=30 rated value24.8 kVA up to 630 V for current peak value n=30 rated value24.8 kVA up to 630 V for current peak value n=30 rated value24.8 kVA up to 630 V for current peak value n=30 rated value24.8 kVA up to 630 V for current peak value n=30 rated value24.8 kVA up to 630 V for current peak value n=30 rated value24.9 kVA up to 630 V for current peak value n=30 rated value24.9 kVA up to 630 V for current peak value n=30 rated value25.8 kVA up to 630 V for current peak value n=30 rated value25.8 kVA up to 630 V for current peak value n=30 rated value25.8 kVA up t					
• at AC-3e- at 400 V rated value22 kW- at 500 V rated value22 kW- at 500 V rated value22 kWoperating power for approx. 200000 operating cycles at AC-4-• at 400 V rated value12.6 kW• at 600 V rated value12.6 kW• at 600 V for current peak value n=20 rated value17.2 kVA• up to 500 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 500 V for current peak value n=20 rated value11.4 kVA• up to 500 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value25.6 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value25.6 kVA• up to 500 V for current peak value n=30 rated value25.4 kVA• up to 500 V for current peak value n=30 rated value25.4 kVA• up to 500 V for current peak value n=30 rated value25.4 kVA• up to 500 V for current peak value n=30 rated value25.4 kVA• up to 500 V for current peak value n=30 rated value25.4 kVA• up to 500 V for current peak value n=30 rated val					
		22 KW			
at 500 V rated value22 kW at 690 V rated value22 kWoperating power for approx. 200000 operating cycles at AC		00.114			
operating power for approx. 200000 operating cycles at AC-4         • at 400 V rated value         • at 400 V rated value         • at 690 V rated value         • 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 600 V for current peak value n=20 rated value         • up to 600 V for current peak value n=20 rated value         • up to 600 V for current peak value n=20 rated value         • up to 600 V for current peak value n=20 rated value         • up to 500 V for current peak value n=20 rated value         • up to 500 V for current peak value n=20 rated value         • up to 500 V for current peak value n=30 rated value         • up to 500 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value         • up to 600 V for current peak value n=30 rated value					
		22 KW			
• at 690 V rated value18.2 kWoperating apparent power at AC-6aI• up to 230 V for current peak value n=20 rated value17.2 kVA• up to 400 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-6a28.6 kVA• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 230 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value28.6 kVA• up to 500 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section					
operating apparent power at AC-6a17.2 kVA• up to 230 V for current peak value n=20 rated value17.2 kVA• up to 400 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 690 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-6a11.4 kVA• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 500 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 500 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum28.2 k; Use minimum cross-section acc. to AC-1 rated value• limited to 69 s switching at zero current maximum29.2 k; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum29.2 k; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum29.2 k; Use m	• at 400 V rated value	12.6 kW			
operating apparent power at AC-6aIf 2 kVA• up to 230 V for current peak value n=20 rated value17.2 kVA• up to 400 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 690 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-6a11.4 kVA• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 500 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum28.2 k; Use minimum cross-section acc. to AC-1 rated value• limited to 69 s switching at zero current maximum29.2 k; Use minimum cross-section acc. to AC-1 rated value• limited to 69 s switching at zero current maximum29.2 k; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum29.2 k; Use m	at 690 V rated value				
• up to 230 V for current peak value n=20 rated value17.2 kVA• up to 400 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 690 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-5a	operating apparent power at AC-6a				
• up to 400 V for current peak value n=20 rated value29.9 kVA• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 690 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-6a-• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 400 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switc		17.2 kVA			
• up to 500 V for current peak value n=20 rated value37.4 kVA• up to 690 V for current peak value n=20 rated value28.6 kVAoperating apparent power at AC-6a• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 400 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• up to 690 V for current peak value n=30 rated value28.6 kVA• limited to 1 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum290 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switch		29.9 kVA			
operating apparent power at AC-6a11.4 kVA• up to 230 V for current peak value n=30 rated value11.4 kVA• up to 400 V for current peak value n=30 rated value19.9 kVA• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum2100 1/h• at AC1 500 1/h• at AC1 500 1/h• at AC-1 maximum1 000 1/h		37.4 kVA			
up to 230 V for current peak value n=30 rated value11.4 kVAup to 400 V for current peak value n=30 rated value19.9 kVAup to 500 V for current peak value n=30 rated value24.9 kVAup to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 1 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 60 s switching at zero current maximum280 kVAfood d CC1 500 1/he at AC1 500 1/he at DC1 500 1/he at AC-1 maximum1 000 1/h	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	28.6 kVA			
up to 230 V for current peak value n=30 rated value11.4 kVAup to 400 V for current peak value n=30 rated value19.9 kVAup to 500 V for current peak value n=30 rated value24.9 kVAup to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 1 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 60 s switching at zero current maximum280 kVAfood d CC1 500 1/he at AC1 500 1/he at DC1 500 1/he at AC-1 maximum1 000 1/h					
• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum280 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum220 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at AC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h	• up to 230 V for current peak value n=30 rated value	11.4 kVA			
• up to 500 V for current peak value n=30 rated value24.9 kVA• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C		19.9 kVA			
• up to 690 V for current peak value n=30 rated value28.6 kVAshort-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum937 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum280 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum290 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1500 1/h• at AC1 500 1/h• at DC1 500 1/h• at AC-1 maximum1 000 1/h		24.9 kVA			
short-time withstand current in cold operating state up to 40 °C937 A; Use minimum cross-section acc. to AC-1 rated value 697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value 229 A; Use minimum cross-section acc. to AC-1 rated value 229 A; Use minimum cross-section acc. to AC-1 rated value 229 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC • at DC1 500 1/h 1 500 1/hoperating frequency • at AC-1 maximum1 000 1/h		28.6 kVA			
• limited to 5 s switching at zero current maximum697 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at AC1 500 1/h• at AC-1 maximum1 500 1/h• at AC-1 maximum1 000 1/h					
• limited to 10 s switching at zero current maximum468 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency229 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at DC1 500 1/h• at AC-1 maximum1 000 1/h	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	937 A; Use minimum cross-section acc. to AC-1 rated value			
• limited to 30 s switching at zero current maximum282 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency229 A; Use minimum cross-section acc. to AC-1 rated value• at AC1 500 1/h• at DC1 500 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	697 A; Use minimum cross-section acc. to AC-1 rated value			
• limited to 60 s switching at zero current maximum229 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency-• at AC1 500 1/h• at DC1 500 1/hoperating frequency-• at AC-1 maximum1 000 1/h	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	468 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency• at AC1 500 1/h• at DC1 500 1/hoperating frequency• at AC-1 maximum1 000 1/h	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	282 A; Use minimum cross-section acc. to AC-1 rated value			
• at AC       1 500 1/h         • at DC       1 500 1/h         operating frequency       1 500 1/h         • at AC-1 maximum       1 000 1/h	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	229 A; Use minimum cross-section acc. to AC-1 rated value			
• at DC1 500 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h	no-load switching frequency				
operating frequency     1 000 1/h	• at AC	1 500 1/h			
• at AC-1 maximum 1 000 1/h	• at DC	1 500 1/h			
	operating frequency				
• at AC-2 maximum 600 1/h	● at AC-1 maximum	1 000 1/h			
	• at AC-2 maximum	600 1/h			

• at AC-3 maximum	800 1/h			
• at AC-3 maximum • at AC-3e maximum				
• at AC-4 maximum	800 1/h 250 1/h			
• at AC-4 maximum Control circuit/ Control				
	AC/DC			
type of voltage of the control supply voltage				
control supply voltage at AC	175 280 \/			
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	175 280 V 175 280 V			
at 60 Hz rated value     control supply voltage at DC	173200 V			
• rated value	175 280 V			
operating range factor control supply voltage rated value of				
operating range factor control supply voltage rated value of magnet coil at DC				
initial value	0.8			
• full-scale value	1.1			
operating range factor control supply voltage rated value of				
magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.8 1.1			
design of the surge suppressor	with varistor			
inrush current peak	5 A			
duration of inrush current peak	30 µs			
locked-rotor current mean value	0.2 A			
locked-rotor current peak	0.42 A			
duration of locked-rotor current	230 ms			
holding current mean value	6 mA			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	40 VA			
• at 60 Hz	40 VA			
apparent holding power				
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	2 VA			
<ul> <li>at maximum rated control supply voltage at DC</li> </ul>	2 VA			
apparent holding power				
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>				
— at 50 Hz	2 VA			
— at 60 Hz	2 VA			
at maximum rated control supply voltage at AC				
— at 50 Hz	2 VA			
at 60 Hz	2 VA			
apparent holding power of magnet coil at AC				
• at 50 Hz	2 VA			
• at 60 Hz	2 VA			
inductive power factor with the holding power of the coil	0.05			
• at 50 Hz	0.95			
• at 60 Hz	0.95			
closing power of magnet coil at DC	23 W			
holding power of magnet coil at DC	1 W			
closing delay				
• at AC	35 110 ms			
• at DC	35 110 ms			
opening delay	20. 55			
• at AC	30 55 ms			
• at DC	30 55 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				
<ul> <li>at 230 V rated value</li> </ul>	6 A			

<ul> <li>at 400 V rated value</li> </ul>	3 A				
• at 500 V rated value	2 A				
at 690 V rated value	1 A				
operational current at DC-12					
<ul> <li>at 24 V rated value</li> </ul>	10 A				
<ul> <li>at 48 V rated value</li> </ul>	6 A				
<ul> <li>at 60 V rated value</li> </ul>	6 A				
<ul> <li>at 110 V rated value</li> </ul>	3 A				
• at 125 V rated value	2 A				
<ul> <li>at 220 V rated value</li> </ul>	1 A				
• at 600 V rated value	0.15 A				
operational current at DC-13					
<ul> <li>at 24 V rated value</li> </ul>	6 A				
<ul> <li>at 48 V rated value</li> </ul>	2 A				
<ul> <li>at 60 V rated value</li> </ul>	2 A				
<ul> <li>at 110 V rated value</li> </ul>	1 A				
<ul> <li>at 125 V rated value</li> </ul>	0.9 A				
<ul> <li>at 220 V rated value</li> </ul>	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	52 A				
• at 600 V rated value	52 A				
yielded mechanical performance [hp]					
for single-phase AC motor					
— at 110/120 V rated value	3 hp				
— at 230 V rated value	10 hp				
<ul> <li>for 3-phase AC motor</li> </ul>					
– at 200/208 V rated value	15 hp				
— at 220/230 V rated value	15 hp				
— at 460/480 V rated value	40 hp				
— at 575/600 V rated value	50 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80				
	kA)				
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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	174 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					
1					

— forwards — upwards — downwards — at the side			10 mm 10 mm 10 mm 6 mm				
Connections/ Terminals	3		•				
type of electrical conn							
<ul> <li>for main current of</li> </ul>			screw-type t	erminals			
<ul> <li>for auxiliary and of</li> </ul>			screw-type t				
<ul> <li>at contactor for a</li> </ul>			Screw-type t				
<ul> <li>of magnet coil</li> </ul>	,		Screw-type t				
	nductor cross-sections for	main contacts					
<ul> <li>solid or stranded</li> </ul>			2x (1 35 n	nm²). 1x (1 50 m	nm²)		
	ith core end processing			2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)			
	or cross-section for main	o contacts			7		
	ith core end processing		1 35 mm²				
	or cross-section for auxi	liary contacts					
<ul> <li>solid or stranded</li> </ul>		,	0.5 2.5 mi	m²			
	ith core end processing		0.5 2.5 mi				
	onductor cross-sections	<b>i</b>					
<ul> <li>for auxiliary containing</li> </ul>							
— solid or stra			2x (0.5 1.5	5 mm²), 2x (0.75	2.5 mm <sup>2</sup> )		
	ded with core end process	ina					
	for auxiliary contacts		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14)				
	d connectable conducto	or cross	EX (20 10)	,, <u>2</u> x (10 11)			
section							
<ul> <li>for main contacts</li> </ul>	6		18 1				
<ul> <li>for auxiliary containing</li> </ul>	acts		20 14				
Safety related data							
product function							
<ul> <li>mirror contact ac</li> </ul>	cording to IEC 60947-4-1		Yes				
<ul> <li>positively driven</li> </ul>	operation according to IEC	C 60947-5-1	No				
suitability for use safety	-related switching OFF		Yes	Yes			
B10 value with high der	mand rate according to SN	I 31920	1 000 000	1 000 000			
proportion of dangero	ous failures						
<ul> <li>with low demand</li> </ul>	w demand rate according to SN 31920 40 %			40 %			
<ul> <li>with high demand</li> </ul>	d rate according to SN 319	ate according to SN 31920		73 %			
failure rate [FIT] with low	w demand rate according	to SN 31920	100 FIT	100 FIT			
	nterval or service life acco	rding to IEC	20 a				
61508							
•	the front according to I		IP20				
· .	ne front according to IEC	60529	finger-safe, f	or vertical contact	t from the front		
Certificates/ approvals							
General Product App	roval						
	O and investigation			-	KO		
66	Confirmation	(m)		Ē	<u>KC</u>	гпг	
		<u>u</u>		Ser la constante de la constan		FAL	
CSA		ccc		UL			
5140	Functional						
EMC	Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates		
<b>A</b>	Type Examination Cer-	112	,	~ ~	Special Test Certific-	Type Test Certific-	
	tificate	UK		LE	ate	ates/Test Report	
RCM				EG-Konf.			
			-				
Marine / Shipping							



**Further information** 

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.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-1NP34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1NP34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NP34

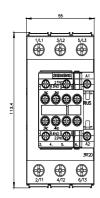
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

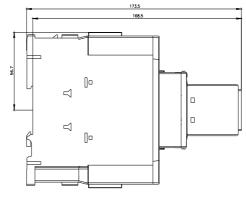
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-1NP34&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

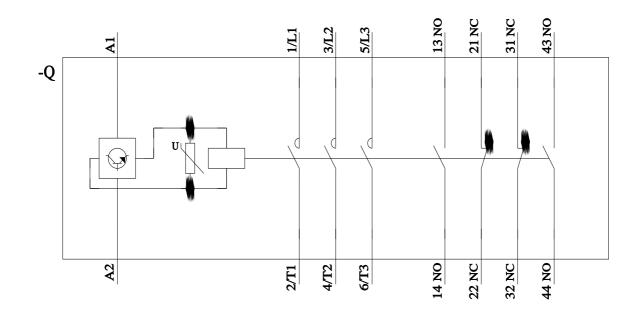
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NP34/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1NP34&objecttype=14&gridview=view1









last modified:

8/15/2023 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RT20361NP34