## **SIEMENS**

## Data sheet

## 3RT2046-3AN20

power contactor, AC-3 95 A, 45 kW / 400 V 1 NO + 1 NC, 230 V AC, 50/60 Hz 3-pole, 3 NO, Size S3 Spring-type terminal



product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
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>	19.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.6 W
power loss [W] for rated value of the current without load current share typical	25 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN 60947-1</li> </ul>	690 V

protection class IP	
• on the front	IP20
• of the terminal	IP00
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics- compatible 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 acc. to DIN EN 81346-2	Q
Ambient conditions	
<ul> <li>installation altitude at height above sea level</li> </ul>	2 000 m
maximum	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
• during storage	-55 +80 °C
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	1 000 V
operating current	
● at AC-1 at 400 V	
	130 A
• at AC-1 at 400 V	130 A
• at AC-1 at 400 V — at ambient temperature 40 °C rated value	130 A 130 A
<ul> <li>at AC-1 at 400 V</li> <li>at ambient temperature 40 °C rated value</li> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C</li> </ul>	
<ul> <li>at AC-1 at 400 V <ul> <li>at ambient temperature 40 °C rated value</li> </ul> </li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C</li> </ul> </li> </ul>	130 A
<ul> <li>at AC-1 at 400 V <ul> <li>at ambient temperature 40 °C rated value</li> </ul> </li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C</li> </ul> </li> </ul>	130 A 110 A
<ul> <li>at AC-1 at 400 V <ul> <li>at ambient temperature 40 °C rated value</li> </ul> </li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 60 °C</li> </ul> </li> </ul>	130 A 110 A 70 A
<ul> <li>at AC-1 at 400 V <ul> <li>at ambient temperature 40 °C rated value</li> </ul> </li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul> </li> </ul>	130 A 110 A 70 A
<ul> <li>at AC-1 at 400 V <ul> <li>at ambient temperature 40 °C rated value</li> </ul> </li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul> </li> </ul>	130 A 110 A 70 A 60 A
<ul> <li>at AC-1 at 400 V <ul> <li>at ambient temperature 40 °C rated value</li> </ul> </li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3 <ul> <li>at 400 V rated value</li> </ul> </li> </ul></li></ul>	130 A 110 A 70 A 60 A

• at AC-5a up to 690 V rated value	114 A
• at AC-5b up to 400 V rated value	95 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	84.4 A
— up to 400 V for current peak value n=20 rated value	84.4 A
— up to 500 V for current peak value n=20 rated value	84.4 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	56.3 A
— up to 400 V for current peak value n=30 rated value	56.3 A
— up to 500 V for current peak value n=30 rated value	56.3 A
— up to 690 V for current peak value n=30 rated value	56.3 A
minimum cross-section in main circuit	
<ul> <li>at maximum AC-1 rated value</li> </ul>	50 mm <sup>2</sup>
operating current for approx. 200000 operating cycles at AC-4	
	42 A
cycles at AC-4	42 A 30 A
• at 400 V rated value	
<ul><li>cycles at AC-4</li><li>at 400 V rated value</li><li>at 690 V rated value</li></ul>	
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current	
<ul> <li>cycles at AC-4</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating current</li> <li>at 1 current path at DC-1</li> </ul>	30 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value	30 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value	30 A 100 A 9 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value	30 A 100 A 9 A 2 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value	30 A 100 A 9 A 2 A 0.6 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value	30 A 100 A 9 A 2 A 0.6 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 24 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1	30 A 100 A 9 A 2 A 0.6 A 0.4 A
<ul> <li>cycles at AC-4 <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operating current <ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul> </li> </ul>	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value – at 110 V rated value • at 110 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 100 A 10 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 100 A 10 A
<ul> <li>cycles at AC-4 <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operating current <ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	30 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 10 A 10 A 1.8 A 1 A

— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
operating current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	45 kW
● at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 kW
• at 690 V rated value	27.4 kW
operating apparent output at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	33 kV·A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	58 kV·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	73 kV·A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	69 kV·A
operating apparent output at AC-6a	

• up to 230 V for current peak value n=30 rated value       22.4 kV/A         • up to 500 V for current peak value n=30 rated value       39 kV/A         • up to 500 V for current peak value n=30 rated value       48.7 kV/A         • up to 500 V for current peak value n=30 rated value       48.7 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • imited to 15 s witching at zero current maximum       1 725 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         • e at AC       5 000 1/h         • e at AC       5 000 1/h         • e at AC-1 maximum       900 1/h         • at AC-2 maximum       350 1/h         • at AC-2 maximum       250 1/h         • at AC-4 maximum       250 1/h         • at 60 Hz rated		
walue       48.7 kV/A         • up to 500 V for current peak value n=30 rated value       48.7 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • short-time withstand current in cold operating state up to 40 °C       67.3 kV/A         • limited to 1 s switching at zero current maximum       1 725 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       1 297 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • at AC-1 maximum       900 1/h         • at AC-2 maximum       900 1/h         • at AC-4 maximum       900 1/h         • at S0 Hz rated value       220		22.4 kV·A
walue       67.3 kV/A         • up to 690 V for current peak value n=30 rated value       67.3 kV/A         • imited to 1 s switching at zero current maximum       1 725 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 5 s switching at zero current maximum       1 297 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 5 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 30 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 30 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 60 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 60 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 60 s switching at zero current maximum       900 1/h         • at AC       5 000 1/h         operating frequency       • at AC-2 maximum         • at AC-1 maximum       900 1/h         • at AC-2 maximum       850 1/h         • at AC-4 maximum       250 1/h         • at 60 Hz rated value       220 V         • at 60 Hz rated value       220 V         • at 60 Hz       0.8 1.1         • at 50 Hz		39 kV·A
value       Initiated to 5 to switching at zero current maximum         • limited to 1 s switching at zero current maximum       1 725 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       1 297 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       486 A; Use minimum cross-section acc. to AC-1 rated value         • at AC-1 maximum       900 1/h         • at AC-1 maximum       900 1/h         • at AC-2 maximum       850 1/h         • at AC-4 maximum       250 1/h         • at 6C-4 maximum       250 1/h         • at 60 Hz rated value       220 V         • at 60 Hz rated value       220 V         • at 60 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         • at 60 Hz       348 V/A         • at 60 Hz       348 V/A         • at 60 Hz       348 V/A		48.7 kV·A
up to 40 °C1• limited to 1 s switching at zero current maximum1• limited to 5 s switching at zero current maximum1• limited to 5 s switching at zero current maximum1• limited to 10 s switching at zero current maximum946 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum946 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• limited to 40 °C5000 1/h• at AC5000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum250 1/h• at AC-4 maximum220 V• at 60 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz348 V/A• at 60 Hz348 V/A• at 60 Hz266 V/A		67.3 kV·A
up to 40 °CI• limited to 1 s switching at zero current maximum1 725 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum1 297 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum946 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum610 A; Use minimum cross-section acc. to AC-1 rated value• at AC operating frequency • at AC-1 maximum900 1/h• at AC-2 maximum • at AC-3 maximum900 1/h• at AC-3 maximum • at AC-4 maximum900 1/h• at AC-4 maximum • at AC-4 maximum250 1/h• at 60 Hz rated value • at 50 Hz • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz220 V• at 60 Hz • at 60 Hz0.8 1.1• at 60 Hz • at 60 Hz0.8 1.1• at 60 Hz • at 60 Hz348 V/A• at 6	short-time withstand current in cold operating state	
maximum       1 297 A; Use minimum cross-section acc. to AC-1 rated value         maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       900 1/h         et AC-1 maximum       900 1/h         et AC-2 maximum       350 1/h         et AC-3 maximum       250 1/h         control supply voltage at AC       220 V         et at 50 Hz       220 V         et 60 Hz       0.8 1.1         et 60 Hz       0.8 1.1         et 60 Hz       0.8 1.1 <tr< td=""><td>up to 40 °C</td><td></td></tr<>	up to 40 °C	
maximum       946 A; Use minimum cross-section acc. to AC-1 rated value         e limited to 30 s switching at zero current       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       610 A; Use minimum cross-section acc. to AC-1 rated value         maximum       486 A; Use minimum cross-section acc. to AC-1 rated value         maximum       486 A; Use minimum cross-section acc. to AC-1 rated value         molecad switching frequency       486 A; Use minimum cross-section acc. to AC-1 rated value         e at AC       5 000 1/h         operating frequency       900 1/h         e at AC-1 maximum       900 1/h         e at AC-2 maximum       350 1/h         e at AC-3 maximum       250 1/h         e at AC-4 maximum       250 1/h         control supply voltage at AC       220 V         e at 50 Hz rated value       220 V         e at 60 Hz rated value       220 V         operating range factor control supply voltage rated value       220 V         operating range factor control supply voltage rated value       220 V         e at 50 Hz       0.8 1.1         e at 60 Hz       0.8 1.1         e at 60 Hz       0.8 1.1         e at 60 Hz       240 V/A         e at 60 Hz       240 V/A         e at 60		1 725 A; Use minimum cross-section acc. to AC-1 rated value
maximum <ul> <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>at AC</li> <li>5 000 1/h</li> </ul> <ul> <li>d86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>at AC</li> <li>be at AC</li> <li>control sympty frequency</li> <li>at AC-1 maximum</li> <li>g00 1/h</li> <li>at AC-2 maximum</li> <li>g80 1/h</li> <li>at AC-3 maximum</li> <li>g80 1/h</li> <li>at AC-4 maximum</li> <li>g80 1/h</li> <li>at S0 Hz rated value</li> <li>g20 V</li> <li>operating range factor control supply voltage rated</li> <li>yu V</li> <li>at 60 Hz rated value</li> <li>g20 V</li> <li>oat 60 Hz</li> <li>at 60 Hz</li></ul>	_	1 297 A; Use minimum cross-section acc. to AC-1 rated value
maximum       486 A; Use minimum cross-section acc. to AC-1 rated value         mo-load switching frequency       5 000 1/h         e at AC       5 000 1/h         operating frequency       900 1/h         e at AC-1 maximum       900 1/h         e at AC-2 maximum       350 1/h         e at AC-3 maximum       850 1/h         e at AC-4 maximum       250 1/h         e at AC-4 maximum       250 1/h         e at AC-4 maximum       250 1/h         control circuit/ Control       type of voltage of the control supply voltage         e at 50 Hz rated value       220 V         operating range factor control supply voltage rated       220 V         operating range factor control supply voltage rated       0.8 1.1         e at 50 Hz       0.8 1.1         e at 60 Hz       0.8 1.1         e at 60 Hz       248 V/A         e at 60 Hz       248 V/A         e at 60 Hz       296 V/A	-	946 A; Use minimum cross-section acc. to AC-1 rated value
maximumno-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum900 1/h• at AC-2 maximum• at AC-3 maximum• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum• at AC-4 maximum250 1/h• at AC-4 maximum• at S0 Hz rated value• at 50 Hz rated value• at 60 Hz rated value• at 50 Hz• at 60	_	610 A; Use minimum cross-section acc. to AC-1 rated value
• at AC5 000 1/hoperating frequency900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Control1/htype of voltage of the control supply voltageACcontrol supply voltage at AC220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage ratedvalue of magnet coil at AC• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V·A• at 60 Hz296 V·A• at 60 Hz296 V·A		486 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency       900 1/h         • at AC-1 maximum       900 1/h         • at AC-2 maximum       350 1/h         • at AC-3 maximum       850 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       250 1/h         type of voltage of the control supply voltage       AC         control supply voltage at AC       220 V         • at 50 Hz rated value       220 V         • at 60 Hz rated value       220 V         operating range factor control supply voltage rated       value of magnet coil at AC         • at 50 Hz       0.8 1.1         • at 50 Hz       0.8 1.1         • at 60 Hz       248 V·A         • at 60 Hz       296 V·A         inductive power factor with closing power of the coil       296 V·A	no-load switching frequency	
• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageACcontrol supply voltage at AC220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 50 Hz0.8 1.1• at 50 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V-A• at 50 Hz296 V-A	● at AC	5 000 1/h
e at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlAC• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V-A• at 60 Hz296 V-A	operating frequency	
<ul> <li>at AC - 3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>220 V</li> <li>at 60 Hz rated value</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>0.8 1.1</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>bit 20 Hz</li> <li>bit 20 Hz</li> <li>bit 20 Hz</li> <li>bit 20 Hz</li> <li>bit 30 Hz</li> <li>bi</li></ul>	• at AC-1 maximum	900 1/h
• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz rated value220 V• at 60 Hz rated value220 V• operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz348 V·A• at 60 Hz348 V·A• at 60 Hz296 V·A	• at AC-2 maximum	350 1/h
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       220 V         • at 50 Hz rated value       220 V         • at 60 Hz rated value       220 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         • at 60 Hz       0.85 1.1         apparent pick-up power of magnet coil at AC       348 V·A         • at 60 Hz       296 V·A	• at AC-3 maximum	850 1/h
type of voltage of the control supply voltageACcontrol supply voltage at AC220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1at 60 Hz348 V·A• at 50 Hz348 V·A• at 60 Hz296 V·A	• at AC-4 maximum	250 1/h
type of voltage of the control supply voltageACcontrol supply voltage at AC220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V·A• at 50 Hz296 V·A	Control circuit/ Control	
• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC220 V• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V·A• at 60 Hz296 V·A		AC
• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V·A• at 60 Hz348 V·A• at 60 Hz296 V·A	control supply voltage at AC	
operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V·A• at 60 Hz348 V·A• at 60 Hz296 V·A	• at 50 Hz rated value	220 V
value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC348 V·A• at 50 Hz348 V·A• at 60 Hz296 V·A	• at 60 Hz rated value	220 V
• at 60 Hz       0.85 1.1         apparent pick-up power of magnet coil at AC       348 V·A         • at 50 Hz       348 V·A         • at 60 Hz       296 V·A         inductive power factor with closing power of the coil       0.85 1.1		
apparent pick-up power of magnet coil at AC         • at 50 Hz       348 V·A         • at 60 Hz       296 V·A         inductive power factor with closing power of the coil	• at 50 Hz	0.8 1.1
	• at 60 Hz	0.85 1.1
• at 60 Hz 296 V·A inductive power factor with closing power of the coil	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil	• at 50 Hz	348 V·A
	• at 60 Hz	296 V·A
• at 50 Hz 0.62	inductive power factor with closing power of the coil	
	● at 50 Hz	
• at 60 Hz 0.55		0.62
apparent holding power of magnet coil at AC	• at 60 Hz	

● at 50 Hz	25 V·A
• at 60 Hz	18 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.35
• at 60 Hz	0.41
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 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	
<ul> <li>instantaneous contact</li> </ul>	1
number of NO contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	1
operating current at AC-12 maximum	10 A
operating 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
operating current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	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
operating current at DC-13	
• at 24 V rated value	10 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)

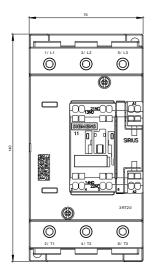
UL/CSA ratings

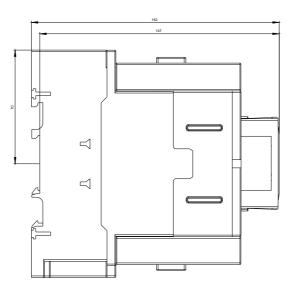
full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	96 A
• at 600 V rated value	77 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	75 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: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 10 A (500 V, 1 kA)
<ul> <li>— with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	A (415 V, 80 kA)
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA)
• for short-circuit protection of the auxiliary switch	A (415 V, 80 kA)
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA)
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be
• for short-circuit protection of the auxiliary switch required	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting
• for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting type	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting type      side-by-side mounting	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting type      side-by-side mounting  height width depth	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting type      side-by-side mounting  height width	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting type      side-by-side mounting  height width depth	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  mounting type      side-by-side mounting  height width depth required spacing	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>mounting position</li> <li>mounting type <ul> <li>side-by-side mounting</li> </ul> </li> <li>height <ul> <li>width</li> <li>depth</li> <li>required spacing <ul> <li>with side-by-side mounting</li> </ul> </li> </ul></li></ul>	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>mounting position</li> <li>mounting type <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>— forwards</li> </ul> </li> </ul>	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>mounting position</li> <li>mounting type <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> </ul> </li> </ul>	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>mounting position</li> <li>mounting type <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> </ul> </li> </ul>	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>mounting position</li> <li>mounting type <ul> <li>side-by-side mounting</li> </ul> </li> <li>height <ul> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul>	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>mounting position</li> <li>mounting type <ul> <li>side-by-side mounting</li> </ul> </li> <li>height <ul> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> </ul> </li> </ul>	A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm

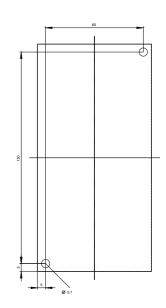
dowowordo	10 mm
— downwards	
for live parts	20 mm
— forwards	10 mm
— upwards	10 mm
— downwards	
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
<ul> <li>of magnet coil</li> </ul>	Spring-type terminals
type of connectable conductor cross-sections	
• for main contacts	
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (10 1/0), 1x (10 2)
connectable conductor cross-section for main	
contacts	
• solid	2.5 16 mm²
• stranded	6 70 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
single or multi-stranded	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— single or multi-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	2x (0.5 2.5 mm <sup>2</sup> )
processing	
<ul> <li>type of connectable conductor cross-sections at</li> </ul>	2x (20 16)
AWG conductors for auxiliary contacts	
AWG number as coded connectable conductor cross	
section	
• for main contacts	10 2
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	

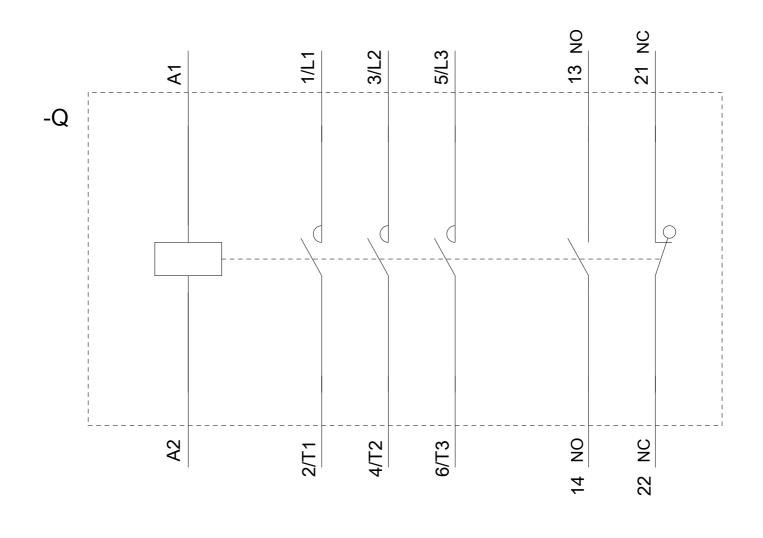
<ul> <li>with low demand</li> <li>with high demand</li> </ul>	d rate acc. to SN 31		10.01		
• with high deman		1920	40 %		
• with high demand rate acc. to SN 31920		73 %			
failure rate [FIT]					
• with low demand rate acc. to SN 31920		100 FIT			
product function	product function				
<ul> <li>mirror contact a</li> </ul>	cc. to IEC 60947-4-	1	Yes		
• positively driven operation acc. to IEC 60947-5-		No			
1					
T1 value for proof test IEC 61508	t interval or service	life acc. to	20 у		
protection against ele	ctrical shock		finger-safe when touche	ed vertically from from	t acc. to IEC 60529
suitability for use safe	ty-related switching	OFF	Yes	-	
Certificates/ approva					
General Product	Approval				EMC
(ma	(CR		KC	r M F	
$(\mathbf{m})$	(9F)	( <sup>w</sup> L)		FHF	
CCC	CSA	UL		LIIL	RCM
Declaration of Co	-	Test Certif		Marine / Shippi	ng
	Miscellaneous	Type Test Ce		SULLAN BURK	
		ates/Test Re		a c	Register
EG-Konf.				ABS	LRS
Marine / Shipping	1			other	Railway
Marine / Shipping			ovROVED PA	<b>other</b> Confirmation	Railway Vibration and Shock
Marine / Shipping			A REPOVED PROJ		
Marine / Shipping					-
Marine / Shipping	RINA	RMRS			-
Marine / Shipping		RMRS			-
Marine / Shipping		RMRS			
PRS Further information	RINA		DNV-GL		-
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Further information Information- and Dow https://www.siemens.cor Industry Mall (Online of https://mall.industry.siem Cax online generator http://support.automation Service&Support (Mai https://support.industry.si Image database (proc http://www.automation.si Characteristic: Trippin	nloadcenter (Catalo n/ic10 ordering system) nens.com/mall/en/en/con n.siemens.com/WW/Con nuals, Certificates, siemens.com/cs/ww/en duct images, 2D dim iemens.com/bilddb/ca	ogs, Brochures Catalog/product? AXorder/default. Characteristics n/ps/3RT2046-3/ nension drawin x_de.aspx?mlfb: 't, Let-through o	,) mlfb=3RT2046-3AN20 aspx?lang=en&mlfb=3RT204 s, FAQs,) AN20 gs, 3D models, device circ =3RT2046-3AN20⟨=en current	6-3AN20	Vibration and Shock
PRS Further information Information- and Dow https://www.siemens.cor Industry Mall (Online of https://mall.industry.siem Cax online generator http://support.automatior Service&Support (Man https://support.industry.si Image database (proc http://www.automation.si	nloadcenter (Catalo n/ic10 ordering system) nens.com/mall/en/en/con n.siemens.com/WW/Con nuals, Certificates, siemens.com/cs/ww/en duct images, 2D dim iemens.com/bilddb/ca	ogs, Brochures Catalog/product? AXorder/default. Characteristics n/ps/3RT2046-3/ nension drawin x_de.aspx?mlfb: 't, Let-through o	,) mlfb=3RT2046-3AN20 aspx?lang=en&mlfb=3RT204 s, FAQs,) AN20 gs, 3D models, device circ =3RT2046-3AN20⟨=en current	6-3AN20	Vibration and Shock

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3AN20&objecttype=14&gridview=view1









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