## SIEMENS

## Data sheet

## 3RT2018-1AP01



Power contactor, AC-3 16 A, 7.5 kW / 400 V 1 NO, 230 V AC, 50/60 Hz 3-pole, Size S00 screw terminals

product designation       Power contactor         product type designation       3RT2         General technical data       500         size of contactor       S00         product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current at AC in hot operating state       6.6 W         • per pole       2.2 W         power loss [W] for rated value of the current without load current share typical       5.7 W         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         maximum permissible voltage for safe isolation between coil and main contacts ac: to E 06047-1       400 V         shock resistance at rectangular impulse       6 kV         • at AC       7.3g / 5 ms, 4.7g / 10 ms         shock resistance with sine pulse       30 000 000         • at AC       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       200 0m         • of the contactor with added electronically optimized auxiliary switch block typical       00 000         • of the contactor with added electronically optimized auxili	product brand name	SIRIUS
product type designation         3RT2           General technical data         S00           size of contactor         S00           product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current at AC in hot operating state         6.6 W           • per pole         2.2 W           power loss [W] for rated value of the current without load current share typical         5.7 W           surge voltage resistance         6 kV           • of main circuit rated value         6 kV           • of main contacts ac. to EN 60947-1         400 V           shock resistance at rectangular impulse         400 V           • at AC         7,3g / 5 ms, 4,7g / 10 ms           shock resistance with sine pulse         30 000 000           • at AC         11,4g / 5 ms, 7,3g / 10 ms           mechanical service life (switching cycles)         30 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         0 Q           Ambient conditions         2 000 m           installation altitude at height above sea level maximum         2 000 m	•	
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coil and main contacts acc. to EN 60947-1shock resistance at rectangular impulse• at AC7,3g / 5 ms, 4,7g / 10 msshock resistance with sine pulse• at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (switching cycles)• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical30 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code acc. to IEC 81346-2QAmbient conditions2 000 m• ambient temperature during operation-25 +60 °C	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
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shock resistance with sine pulse       11,4g / 5 ms, 7,3g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       0 000 000         reference code acc. to IEC 81346-2       Q         Ambient conditions       2 000 m         • ambient temperature during operation       -25 +60 °C	shock resistance at rectangular impulse	
• at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (switching cycles).• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0• ambient conditions2 000 m• ambient temperature during operation-25 +60 °C	• at AC	7,3g / 5 ms, 4,7g / 10 ms
mechanical service life (switching cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code acc. to IEC 81346-2       Q         Ambient conditions       2 000 m         • ambient temperature during operation       -25 +60 °C	shock resistance with sine pulse	
• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code acc. to IEC 81346-2QAmbient conditions2 000 m• ambient temperature during operation-25 +60 °C	• at AC	11,4g / 5 ms, 7,3g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> <li>10 000 000</li> <li>reference code acc. to IEC 81346-2</li> <li>Q</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature during operation</li> <li>2000 m</li> <li>-25 +60 °C</li> </ul>	mechanical service life (switching cycles)	
auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code acc. to IEC 81346-2       Q         Ambient conditions       2 000 m         • ambient temperature during operation       -25 +60 °C	<ul> <li>of contactor typical</li> </ul>	30 000 000
typical       reference code acc. to IEC 81346-2       Q       Ambient conditions       installation altitude at height above sea level maximum     2 000 m       • ambient temperature during operation     -25 +60 °C		5 000 000
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installation altitude at height above sea level maximum2 000 m• ambient temperature during operation-25 +60 °C	reference code acc. to IEC 81346-2	Q
• ambient temperature during operation -25 +60 °C	Ambient conditions	
	installation altitude at height above sea level maximum	2 000 m
	ambient temperature during operation	-25 +60 °C
• ambient temperature during storage -55 +80 °C	<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
Main circuit		
number of poles for main current circuit 3	number of poles for main current circuit	3
number of NO contacts for main contacts 3	•	3
operating voltage at AC-3 rated value maximum     690 V	<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	690 V
operational current		

<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	22 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	11.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	13.2 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
at 690 V rated value	4.4 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 110 V rated value — at 220 V rated value	2.1 A 0.8 A
<ul> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A
<ul> <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>	2.1 A 0.8 A
<ul> <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>with 2 current paths in series at DC-1</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A
<ul> <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>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A
<ul> <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>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A
<ul> <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>with 2 current paths in series 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> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A
<ul> <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>with 2 current paths in series 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 440 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A
<ul> <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>with 2 current paths in series 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 440 V rated value</li> <li>at 600 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A
<ul> <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>with 2 current paths in series 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>with 3 current paths in series at DC-1</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A
<ul> <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>with 2 current paths in series 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 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A
<ul> <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>with 2 current paths in series 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>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 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 10 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A
<ul> <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>with 2 current paths in series 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>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>with 3 current paths in series 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>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 210 V rated value</li> <li>at 210 V rated value</li> <li>at 210 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 20 A
<ul> <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>with 2 current paths in series 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>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</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 440 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 1.3 A
<ul> <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>with 2 current paths in series 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>at 22 V rated value</li> <li>at 440 V rated value</li> <li>at 22 V rated value</li> <li>at 22 V rated value</li> <li>at 440 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 20 A
<ul> <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>with 2 current paths in series 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>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 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>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 1.3 A
<ul> <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>with 2 current paths in series 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>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 110 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 10 V rated value</li> </ul>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 1.3 A 1.3 A 1 A
<ul> <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>with 2 current paths in series 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>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 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>	2.1 A 0.8 A 0.6 A 0.6 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 1.3 A

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apparent holding power of magnet coil at AC				
• at 60 Hz	0.75			
• at 50 Hz	0.8			
inductive power factor with closing power of the coil				
• at 60 Hz	33 V·A			
• at 50 Hz	37 V·A			
apparent pick-up power of magnet coil at AC				
• at 60 Hz	0.85 1.1			
● at 50 Hz	0.8 1.1			
value of magnet coil at AC				
operating range factor control supply voltage rated				
at 60 Hz rated value	230 V			
at 50 Hz rated value	230 V			
control supply voltage at AC				
type of voltage of the control supply voltage	AC			
Control circuit/ Control				
• at AC-4 maximum	250 1/h			
• at AC-3 maximum	750 1/h			
• at AC-2 maximum	750 1/h			
• at AC-1 maximum	1 000 1/h			
operating frequency				
• at AC	10 000 1/h			
no-load switching frequency				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10's switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 0 s writching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	169 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value			
short-time withstand current in cold operating state up to 40 °C				
up to 690 V for current peak value n=30 rated value	7.6 kV·A			
• up to 500 V for current peak value n=30 rated value	5.5 kV·A			
<ul> <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> </ul>	4.4 kV·A			
• up to 230 V for current peak value n=30 rated value	2.5 kV·A			
operating apparent power at AC-6a				
• up to 690 V for current peak value n=20 rated value	10.6 kV·A			
• up to 500 V for current peak value n=20 rated value	8.3 kV·A			
• up to 400 V for current peak value n=20 rated value	6.6 kV·A			
up to 230 V for current peak value n=20 rated value	3.8 kV·A			
• at 690 v rated value operating apparent power at AC-6a	0.0 RVV			
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul>	2.5 kW 3.5 kW			
at AC-4	2.5 kW			
operating power for approx. 200000 operating cycles				
— at 690 V rated value	7.5 kW			
— at 500 V rated value	7.5 kW			
— at 400 V rated value	7.5 kW			
— at 230 V rated value	4 kW			
• at AC-3				
operating power				
— at 600 V rated value	0.2 A			
— at 440 V rated value	0.2 A			
— at 220 V rated value	1.5 A			
— at 110 V rated value	20 A			
— at 24 V rated value	20 A			
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>				
— at 110 V rated value	0.35 A			
— at 24 V rated value	20 A			
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>				

• at 50 Hz	5.7 V·A			
• at 60 Hz	4.4 V·A			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.25			
• at 60 Hz	0.25			
closing delay				
• at AC	8 33 ms			
opening delay				
• at AC	4 15 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NO contacts for auxiliary contacts instantaneous contact	1			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
<ul> <li>at 230 V rated value</li> </ul>	10 A			
• at 400 V rated value	3 A			
• at 500 V rated value	2 A			
at 690 V rated value	1 A			
operational current at DC-12				
at 24 V rated value	10 A			
at 48 V rated value	6 A			
• at 60 V rated value	6 A			
<ul> <li>at 110 V rated value</li> </ul>	3 A			
• at 125 V rated value	2 A			
at 220 V rated value	1 A			
at 600 V rated value	0.15 A			
operational current at DC-13	40.4			
• 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	1A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A 0.1 A			
at 600 V rated value     contact reliability of auxiliary contacts				
UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)			
full-load current (FLA) for 3-phase AC motor	14 A			
at 480 V rated value	14 A 11 A			
at 600 V rated value yielded mechanical performance [hp]				
for single-phase AC motor				
- at 110/120 V rated value	1 hp			
— at 230 V rated value	2 hp			
for 3-phase AC motor	2 mp			
- at 200/208 V rated value	3 hp			
— at 220/230 V rated value	5 hp			
— at 460/480 V rated value	10 hp			
— at 575/600 V rated value	10 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
— with type of coordination 1 required	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)			
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)			
<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 standard mounting rail according to DIN EN 60715		
<ul> <li>side-by-side mounting</li> </ul>	Yes		
height	58 mm		
width	45 mm		
depth	73 mm		
required spacing			
• with side-by-side mounting			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> <li>forwards</li> </ul>	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>	screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals		
of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections			
for main contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12		
connectable conductor cross-section for main			
contacts			
• solid	0.5 4 mm <sup>2</sup>		
• stranded	0.5 4 mm <sup>2</sup>		
finely stranded with core end processing	0.5 2.5 mm²		
connectable conductor cross-section for auxiliary contacts			
• solid or stranded	0.5 4 mm²		
<ul> <li>finely stranded with 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 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross section for main contacts	20 12		
AWG number as coded connectable conductor cross section for auxiliary contacts	20 12		
Safety related data			
B10 value with high demand rate acc. to SN 31920	1 000 000		
proportion of dangerous failures			
• with low demand rate acc. to SN 31920	40 %		

<ul> <li>with high dem</li> </ul>	and rate acc. to SN 319	020	73 %				
-			100 FIT				
failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT product function							
•	mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29						
T1 value for proof test interval or service life acc. to IEC 61508							
protection class IP	on the front acc. to IE	C 60529	IP20				
touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front							
suitability for use safety-related switching OFF Yes							
Certificates/ approvals							
General Product A		٩	KC	EAC	EMC RCM		
EMC	Declaration of Cor	formity	Test Certificates		Marine / Shipping		
RCM	CE EG-Konf.	<u>Miscellaneo</u>	<u>us Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS		
Marine / Shipping							
LIS PRS RINA RINA RINA RINA RINA							
other							
Confirmation	Confirmation Confirmation						
Further information Information- and Downloadcenter (Catalogs, Brochures,) siemens .com/ic10 Industry Mall (Online ordering system) mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-1AP01 Cax online generator support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1AP01							
support.automation. Service&Support (I support.industry.sier Image database (pr automation.siemens	siemens.com/WW/CAX Manuals, Certificates, mens.com/cs/ww/en/ps/	Characteristics, 3RT2018-1AP01 nension drawing px?mlfb=3RT2018	FAQs,) s, 3D models, device circui -1AP01⟨=en		acros,)		

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AP01/char

Further characteristics (e.g. electrical endurance, switching frequency) automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1AP01&objecttype=14&gridview=view1







