## **SIEMENS**

Data sheet 3RT2017-1BP41



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 230 V DC 3-pole, Size S00 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
without load current share typical	4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	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	
— up to 690 V at ambient temperature 40 °C	22 A
rated value	22 /
— up to 690 V at ambient temperature 60 °C	20 A
rated value	
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	7.2 A
up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated	7.2 A
value — up to 690 V for current peak value n=20 rated	6.7 A
value	
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	4.8 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	4.8 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 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	4.1 A
• at 690 V rated value	3.3 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 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
	V.V.
— at 600 V rated value	0.7 A

— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
at AC-2 at 400 V rated value	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2.8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	4.9 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	6.2 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	8 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1.9 kVA
• up to 400 V for current peak value n=30 rated value	3.3 kVA
up to 500 V for current peak value n=30 rated value	4.1 kVA
up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
71	

Soperating range factor control supply voltage rated value of magnet coil at DC	control supply voltage at DC	
value of magnet coll at DC		230 V
Initial value		
• full-scale value	_	0.8
Closing power of magnet coil at DC		
holding power of magnet coil at DC		
at DC		
e at DC		4 VV
opening delay		20 400
arcing time		30 100 HIS
arcing time		7 40 mg
Control version of the switch operating mechanism   Standard A1 - A2		
Auxiliary circuit   number of NO contacts for auxiliary contacts   1		
number of NO contacts for auxiliary contacts instantaneous contact   1   10   A		Standard A1 - A2
instantaneous contact operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value at 400 V rated value 3 A at 500 V rated value 2 A at 690 V rated value 10 A  operational current at DC-12  at 24 V rated value 11 A  operational current at DC-12  at 24 V rated value 6 A at 110 V rated value 6 A at 110 V rated value 3 A at 125 V rated value 1 A at 600 V rated value 2 A at 125 V rated value 3 A at 125 V rated value 2 A at 125 V rated value 2 A at 125 V rated value 2 A at 120 V rated value 2 A at 125 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 3 A at 600 V rated value 4 AB V rated value 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A		
Operational current at AC-12 maximum   10 A		1
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 650 V rated value • at 650 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 48 V rated value • at 10 V rated value • at 10 V rated value • at 10 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 600 V rated value • at 100 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 20 V rated value • at 200 V rated value • at 200 V rated value • at 300 V rated value • at 200 V rated value • at 600		40.4
	<u> </u>	10 /
	•	10.0
● at 990 V rated value		
Operational current at DC-12		
• at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 2600 V rated value • at 2600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 200 V rated value • at 200 V rated value • at 480 V rated value • at 480 V rated value • at 200 V rated value • for 3-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • 7.5 hp • at 575/600 V rated value • 10 hp		I A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.15 A</li> </ul> Operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 122 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 150 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 11 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 200 V rated value</li> <li>at 400/480 V rated value</li> <li>at 400/480 V rated value</li> <li>at 400/480 V rated value</li> <li>at 575/600 V rated value</li> <li>7.5 hp</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul>	•	40.4
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <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 60 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 120 V rated value</li> <li>at 120 V rated value</li> <li>at 600 V rated value</li> <li>at 1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> UL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 7.5 hp</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>by 60</li> </ul>		
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 200 V rated value</li> <li>ontated value</li> <li>ontated value</li> <li>ontated value</li> <li>ontated 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 34 V rated value</li> <li>at 34 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 300 V rated value</li> <li>at 480 V rated value</li> <li>at 700 V rated value</li> <li>at 100 V rated value</li> <li>at 100 V rated value</li> <li>at 200 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul>		
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 30 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 4600 V rated value</li> <li>at 4600 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 71 A</li> <li>at 11 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>b for 3-phase AC motor</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul>		
• at 220 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value  contact reliability of auxiliary contacts  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value  11 A  yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 600 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor • for		
operational current at DC-13		
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 1 A</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 1 A</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 200 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>bp</li> </ul>		U.15 A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 11 A</li> <li>for single-phase AC motor</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul>	•	40.4
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul> Contact reliability of auxiliary contacts <ul> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> UL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>11 A</li> </ul> yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 10/120 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>7.5 hp</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul>		
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 480 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>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>at 260/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>bp</li> </ul>		
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>for 3-phase AC motor</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 2460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> </ul>		
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 11 A</li> </ul> </li> <li>yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>2 hp</li> <li>for 3-phase AC motor</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>3 hp</li> <li>at 460/480 V rated value</li> <li>7.5 hp</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul> </li> </ul>		
<ul> <li>at 600 V rated value</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 11 A</li> </ul> </li> <li>yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>2 hp</li> </ul> </li> <li>for 3-phase AC motor</li> <li>at 230 V rated value</li> <li>2 hp</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul>		
contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor		
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         ● at 480 V rated value       11 A         ● at 600 V rated value       11 A         yielded mechanical performance [hp]         ● for single-phase AC motor       0.5 hp         — at 230 V rated value       2 hp         ● for 3-phase AC motor       3 hp         — at 220/230 V rated value       3 hp         — at 460/480 V rated value       7.5 hp         — at 575/600 V rated value       10 hp		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  11 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  11 A  11 A  11 A  12 A  13 A  14 A  15 A  16 A  17 A  18 A  18 A  19 A  19 A  10 A  10 A  10 A  11 A		1 faulty switching per 100 million (17 V, 1 mA)
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>11 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>10 hp</li> </ul> </li> </ul>	UL/CSA ratings	
● at 600 V rated value  yielded mechanical performance [hp]  ● for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value 2 hp  ● for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp		
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value		
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>for 3 hp</li> </ul> <li>for 3 hp</li> <li>for 3 hp</li> <li>for 4 hp</li> <li>for 4 hp</li> <li>for 4 hp</li> <li>for 5 hp</li> <li>for 4 hp</li>		11 A
<ul> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> <li>● for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> <li>10 hp</li> </ul>		
<ul> <li>— at 230 V rated value</li> <li>● for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> <li>10 hp</li> </ul>		
● for 3-phase AC motor  — at 200/208 V rated value 3 hp  — at 220/230 V rated value 3 hp  — at 460/480 V rated value 7.5 hp  — at 575/600 V rated value 10 hp		·
- at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp		2 hp
— at 220/230 V rated value       3 hp         — at 460/480 V rated value       7.5 hp         — at 575/600 V rated value       10 hp	•	
— at 460/480 V rated value       7.5 hp         — at 575/600 V rated value       10 hp		·
— at 575/600 V rated value 10 hp		
contact rating of auxiliary contacts according to UL A600 / Q600	contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	Short-circuit protection	
design of the fuse link	design of the fuse link	
• for short-circuit protection of the main circuit	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,	— with type of assignment 2 required	
80kA)		80kA)

ctallation/ mounting/dimensions	
stallation/ mounting/ dimensions	1/4000
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
side-by-side mounting	Yes
neight	58 mm
width	45 mm
depth	73 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
onnections/ 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	
<ul><li>for main contacts</li></ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul><li>— solid or stranded</li></ul>	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	
• solid	0.5 4 mm²
• stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
connectable conductor cross-section for auxiliary	5.5 m 2.6 mm
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	
for main contacts	20 12
for auxiliary contacts	20 12
afety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes; with 3RH29
B10 value with high demand rate according to SN 31920	1 000 000

40 %
73 %
100 FIT
20 y
IP20
finger-safe, for vertical contact from the front
Yes

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping other Dangerous Good



Confirmation



<u>Transport Information</u>

## **Further information**

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=3RT2017-1BP41

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2017-1BP41}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1BP41

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

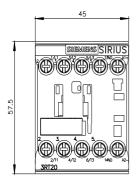
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1BP41\&lang=en}}$ 

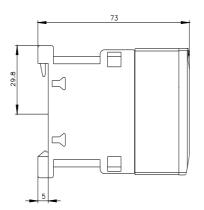
Characteristic: Tripping characteristics, I2t, Let-through current

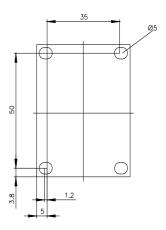
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1BP41/char

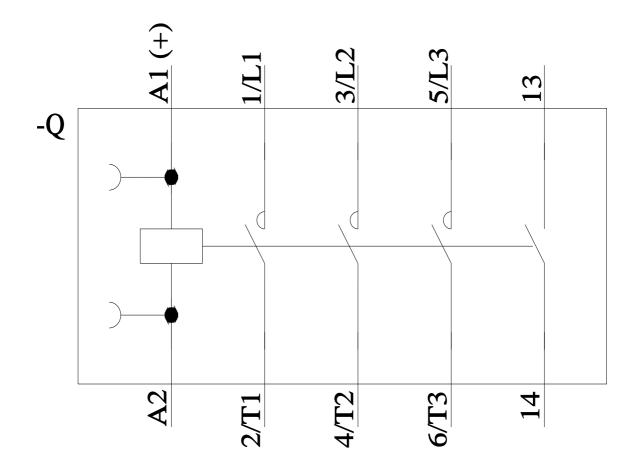
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1BP41&objecttype=14&gridview=view1









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6/2/2022