# **SIEMENS**

Data sheet 3RT2015-2BB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00  $\,$ 

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>	0.6 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W	
without load current share typical	4 W	
type of calculation of power loss depending on pole	quadratic	
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 protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at DC	6,7g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at DC	10,5g / 5 ms, 6,6g / 10 ms	
mechanical service life (operating 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 %	
Environmental footprint		

Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
Main circuit	-0.000 kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	. •
at AC-3 rated value maximum	690 V
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>	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	7.4
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
<ul><li>at AC-3e</li><li>— at 400 V rated value</li></ul>	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.7 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1  at 24 V rated value	15 Δ
— at 24 V rated value  — at 60 V rated value	15 A 15 A
— at 110 V rated value  — at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
with 3 current paths in series at DC-1	
- min o ourront patrio in series at DO-1	

-t 0.4 \ /t	45.4	
— at 24 V rated value	15 A	
— at 60 V rated value	15 A	
— at 110 V rated value	15 A	
— at 220 V rated value	15 A	
— at 440 V rated value	0.9 A	
— at 600 V rated value	0.7 A	
• at 1 current path at DC-3 at DC-5		
— at 24 V rated value	15 A	
— at 60 V rated value	0.35 A	
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>		
— at 24 V rated value	15 A	
— at 60 V rated value	3.5 A	
— at 110 V rated value	0.25 A	
with 3 current paths in series at DC-3 at DC-5		
— at 24 V rated value	15 A	
— at 60 V rated value	15 A	
— at 110 V rated value	15 A	
— at 220 V rated value	1.2 A	
— at 440 V rated value	0.14 A	
— at 600 V rated value	0.14 A	
operating power		
• at AC-3		
— at 230 V rated value	1.5 kW	
— at 400 V rated value	3 kW	
— at 500 V rated value	3 kW	
— at 690 V rated value	4 kW	
• at AC-3e		
— at 230 V rated value	1.5 kW	
— at 400 V rated value	3 kW	
— at 500 V rated value	3 kW	
— at 690 V rated value	4 kW	
operating power for approx. 200000 operating cycles at AC-		
• at 400 V rated value	1.15 kW	
• at 690 V rated value	1.15 kW	
operating apparent power at AC-6a		
	1.5 kVA	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>		
	2.7 kVA	
• up to 400 V for current peak value n=20 rated value	2.7 kVA 3.3 kVA	
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	3.3 kVA	
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul> operating apparent power at AC-6a	3.3 kVA 4.3 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value	3.3 kVA 4.3 kVA 1 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value	3.3 kVA 4.3 kVA 1 kVA 1.8 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value	3.3 kVA 4.3 kVA 1 kVA 1.8 kVA 2.2 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value	3.3 kVA 4.3 kVA 1 kVA 1.8 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value	3.3 kVA 4.3 kVA 1 kVA 1.8 kVA 2.2 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	3.3 kVA 4.3 kVA 1 kVA 1.8 kVA 2.2 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilmited to 1 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum ro-load switching frequency at DC  operating frequency at AC-1 maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum ro-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h  1 000 1/h 1 000 1/h	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum ro-load switching frequency at DC  operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h  1 000 1/h 750 1/h 750 1/h	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at DC  operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h  1 000 1/h 750 1/h 750 1/h 750 1/h	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum ro-load switching frequency at DC  operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum	3.3 kVA 4.3 kVA  1 kVA 1.8 kVA 2.2 kVA 2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h  1 000 1/h 750 1/h 750 1/h	

type of voltage of the control supply voltage	DC	
type of voltage of the control supply voltage	DC .	
control supply voltage at DC rated value	24 V	
operating range factor control supply voltage rated value of magnet coil at DC	24 V	
• initial value	0.8	
• full-scale value	1.1	
closing power of magnet coil at DC	4 W	
holding power of magnet coil at DC	4 W	
closing delay		
• at DC	30 100 ms	
opening delay		
• at DC	7 13 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		
at 230 V rated value	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	40.4	
at 24 V rated value     at 48 V rated value	10 A 6 A	
at 48 V rated value     at 60 V rated value		
<ul><li>at 60 V rated value</li><li>at 110 V rated value</li></ul>	6 A	
at 110 V rated value     at 125 V rated value	3 A 2 A	
at 220 V rated value	1A	
at 600 V rated value	0.15 A	
operational current at DC-13	U. 10 A	
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	
• at 600 V rated value	0.1 A	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value	4.8 A	
at 600 V rated value	6.1 A	
yielded mechanical performance [hp]		
• for single-phase AC motor		
— at 110/120 V rated value	0.25 hp	
— at 230 V rated value	0.75 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	1.5 hp	
— at 220/230 V rated value	2 hp	
— at 460/480 V rated value	3 hp	
— at 575/600 V rated value	5 hp	
contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the fuse link		
for short-circuit protection of the main circuit	0.000//000//000/	
— with type of coordination 1 required	gG: 35A (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, 80kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	

nstallation/ mounting/ dimensions		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
height	70 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	
for grounded parts	<b>V</b>	
— forwards	10 mm	
— upwards	10 mm	
— at the side	10 mm	
	6 mm	
— downwards	10 mm	
• for live parts	40	
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections		
for main contacts		
— solid	2x (0.5 4 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)	
— finely stranded without core end processing	2x (0.5 2.5 mm²)	
for AWG cables for main contacts	2x (20 12)	
connectable conductor cross-section for main contacts	,	
• 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>	
finely stranded with core end processing     finely stranded without core end processing	0.5 2.5 mm <sup>2</sup>	
connectable conductor cross-section for auxiliary contacts	0.0 2.0 Hilli	
solid or stranded	0.5 4 mm²	
finely stranded without core and processing	0.5 2.5 mm <sup>2</sup>	
finely stranded without core end processing  tune of connectable conductor group sections	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts	0(0.5	
— solid or stranded	2x (0,5 4 mm²)	
— finely stranded with core end processing	2x (0.5 2.5 mm²)	
— finely stranded without core end processing	2x (0.5 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 12)	
AWG number as coded connectable conductor cross section		
• for main contacts	20 12	
for auxiliary contacts	20 12	
afety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29	
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism	
proportion of dangerous failures		

<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
IEC 61508		
T1 value		
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a	
Electrical Safety		
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Approvals Certificates		

#### Approvals Certificates

### **General Product Approval**







Confirmation





Genera	I Product	Approval
--------	-----------	----------

**EMV** 

**Functional Saftey** 

**Test Certificates** 

<u>KC</u>





Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











Marine / Shipping

other

Dangerous Good

Environment





Miscellaneous

Confirmation

Transport Information



### Environment

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2BB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2BB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB41

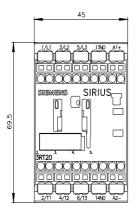
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

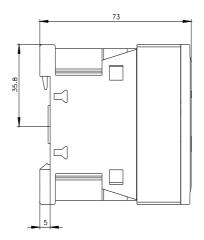
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2BB41\&lang=en}$ 

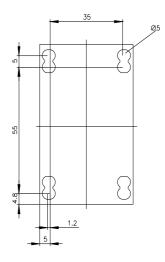
Characteristic: Tripping characteristics, I²t, Let-through current

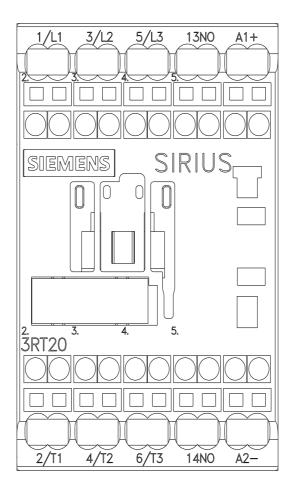
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB41/char

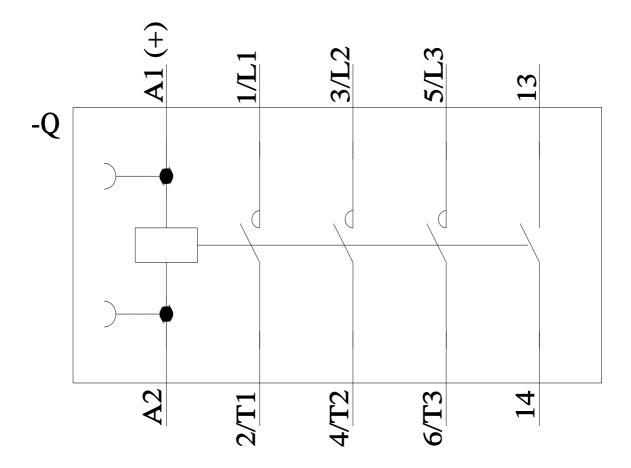
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2BB41&objecttype=14&gridview=view1











last modified: 3/15/2024 🖸