## **SIEMENS**

Data sheet 3RT2015-1BE42



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 60 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>	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
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
<ul> <li>of auxiliary circuit rated value</li> </ul>	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	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 (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
of the contactor with added auxiliary switch block typical	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 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	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	
— at 400 V rated value	7 A
<ul><li>— at 500 V rated value</li></ul>	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	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	0.071
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
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
<ul> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	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 operational current for approx. 200000 operating	2.5 mm <sup>2</sup>
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 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	0.127
— at 24 V rated value	15 A
— at 24 V rated value  — at 110 V rated value	8.4 A
	1.2 A
— at 220 V rated value	
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
<ul><li>with 3 current paths in series at DC-1</li></ul>	

10414	47.4
— at 24 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
<ul><li>— at 600 V rated value</li></ul>	0.7 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 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	15 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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
	4 KVV
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	1.5 kVA
up to 400 V for current peak value n=20 rated value	2.7 kVA
up to 500 V for current peak value n=20 rated value	3.3 kVA
up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	7.0 (V/)
• up to 230 V for current peak value n=30 rated value	1 kVA
	1.8 kVA
• up to 400 V for current peak value n=30 rated value	
up to 500 V for current peak value n=30 rated value	2.2 kVA
up to 690 V for current peak value n=30 rated value	2.9 kVA
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	120 A; Use minimum cross-section acc. to AC-1 rated value
limited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value
_	
Ilimited to 10 s switching at zero current maximum     Ilimited to 30 s switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum     limited to 60 a switching at zero current maximum	52 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 60 s switching at zero current maximum      Included a witching fraguency	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	10 000 1/b
• at DC	10 000 1/h
operating frequency	4 000 4/h
• 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
control supply voltage at DC	

e rated value operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value • full value valu	operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  • at DC  opening delay  • at DC  arcing time  control version of the switch operating mechanism	0.8 1.1 4 W 4 W 30 100 ms 7 13 ms 10 15 ms
value of magnet coll at DC	value of magnet coil at DC  • initial value  • full-scale value  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  • at DC  opening delay  • at DC  arcing time  control version of the switch operating mechanism	1.1 4 W 4 W 30 100 ms 7 13 ms 10 15 ms
	initial value     full-scale value     closing power of magnet coil at DC     holding power of magnet coil at DC     closing delay	1.1 4 W 4 W 30 100 ms 7 13 ms 10 15 ms
Full-scale value	• full-scale value     closing power of magnet coil at DC     holding power of magnet coil at DC     closing delay     • at DC     opening delay     • at DC     arcing time     control version of the switch operating mechanism	1.1 4 W 4 W 30 100 ms 7 13 ms 10 15 ms
Closing power of magnet coll at DC	closing power of magnet coil at DC holding power of magnet coil at DC closing delay	4 W 4 W 30 100 ms 7 13 ms 10 15 ms
Autor   Auto	holding power of magnet coil at DC  closing delay  • at DC  opening delay  • at DC  arcing time  control version of the switch operating mechanism	4 W 30 100 ms 7 13 ms 10 15 ms
closing delay	closing delay	30 100 ms 7 13 ms 10 15 ms
ait DC	at DC     opening delay     at DC     arcing time     control version of the switch operating mechanism	7 13 ms 10 15 ms
at DC	opening delay  • at DC  arcing time  control version of the switch operating mechanism	7 13 ms 10 15 ms
arcing time control version of the switch operating mechanism  Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  at 230 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 10 A  at 110 V rated value be at 48 V rated value at 10 A  at 120 V rated value be at 24 V rated value at 10 A  at 27 V rated value be at 28 V rated value be at 28 V rated value be at 29 V rated value be at 110 V rated value be at 120 V rated value be at 20 V rated value be at 30 V rated value be at 110 V rated value be at 20 V rated value be at 30 V rated value be at 20 V rated value be at 30 V rated value be at 30 V rated value be at 575600 V rated value be at 575600 V rated value be at 575600 V rated value be at 3000 V rated value be at 3000 V rated va	at DC  arcing time  control version of the switch operating mechanism	10 15 ms
arcing time	arcing time control version of the switch operating mechanism	10 15 ms
Control version of the switch operating mechanism   Auxiliary circuit	control version of the switch operating mechanism	
Auxillary circuit   number of NC contacts for auxillary contacts   1		Statiualu AT - AZ
number of NC contacts for auxiliary contacts   1   instantaneous contact   1   insta	A !!! = ! ! 4	
instantaneous contact operational current at AC-12 maximum    operational current at AC-15  • at 230 V rated value		
Operational current at AC-12 maximum   10 A	•	1
Operational current at AC-15   • at 230 V rated value		10 Δ
		10 A
	•	10 Δ
Operational current at DC-12		
• at 24 V rated value		I A
<ul> <li>at 48 V rated value</li> <li>at 6 A</li> <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 220 V rated value</li> <li>at 3 A</li> <li>at 220 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 80 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 125 V rated value</li> <li>at 200 V rated value</li> <li>at 200 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 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 200 V rated value</li> <li>at 200 V rated value</li> <li>at 200 V rated value</li> <li>at 300 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 200 V rated value</li> <li>at 5 hp</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>5 hp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>	•	10.4
at 60 V rated value     at 110 V rated value     at 125 V rated value     at 220 V rated value     at 600 V rated value     at 48 V rated value     at 60 V rated value     at 10 V rated value     at 10 V rated value     at 125 V rated value     at 125 V rated value     at 125 V rated value     at 220 V rated value     at 600 V rated value     at 200 V rated value     at 575/600 V rated value     at 575/600 V rated value     5 hp contact rating of auxiliary contacts according to 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 220 V rated value</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 600 V rated value</li> <li>at 100 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 200 V rated value</li> <li>at 200 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 480 V rated value</li> <li>at 600 V rated value</li> <li>at 101 V rated value</li> <li>at 101 V rated value</li> <li>at 230 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li> <li>at 200 V rated value</li> <li>at 250 V rated value</li> <li>at 250 V rated value</li> <li>at 2675/600 V rated value</li> <li>5 hp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>		
• at 125 V rated value		
• 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 60 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 220 V rated value • at 260 V rated value • at 27 V rated value • at 28 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 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 220/230 V rated value - at 220/230 V rated value - at 480/480 V rated value - at 480/480 V rated value - at 575/600 V rated value		
• at 600 V rated value  operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • at 800 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 200 V rated value • 5 hp • at 2575/600 V rated value • at 575/600 V rated value • 5 hp • contact rating of auxiliary contacts according to UL		
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 220 V rated value</li> <li>at 300 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 100 V rated value</li> <li>at 100 V rated value</li> <li>at 200 V rated value</li> <li>at 200 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>bip</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>		0.15 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 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>full-load current (FLA) for 3-phase AC motor</li> <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>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 200/203 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>5 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / Q600</li> </ul>	•	
<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> <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</li> <li>at 480 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>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>5 hp</li> <li>contact rating of auxiliary contacts according to UL</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 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>at 600 V rated value</li> <li>at 10/120 V rated value</li> <li>at 110/120 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 460/480 V rated value</li> <li>at 5 hp</li> <li>at 460/480 V rated value</li> <li>at 5 hp</li> <li>at 575/600 V rated value</li> <li>5 hp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>		
<ul> <li>at 125 V rated value</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> <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 single-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>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 250/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 250/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 250/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 250/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 250/208 V rated value</li> <li>for 3-phase AC motor</li> <li>for 4.8 A</li> <li>fo</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 110/120 V rated value</li> <li>of rat 230 V rated value</li> <li>of or 3-phase AC motor</li> <li>at 230 V rated value</li> <li>of or 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>5 hp</li> </ul> </li> <li>contact rating of auxiliary contacts according to 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 110/120 V rated value</li> <li>for single-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 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>5 hp</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> </ul>		
contact reliability of auxiliary contacts  □ I faulty switching per 100 million (17 V, 1 mA)  □ IL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • at 600 V rated value  • 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 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value	<ul> <li>at 220 V rated value</li> </ul>	
## Contact rating of auxiliary contacts according to UL  ### UL/CSA ratings  ### Full-load current (FLA) for 3-phase AC motor  ### at 480 V rated value  ### 4.8 A  ### 4.8 A  ### 4.8 A  ### 6.1 A  ### 5.1 A  ### 5.1 A  ### 5.2 B  ### 5.2 B  ### 5.2 B  ### 5.3 B		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value 6.1 A  yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 9.75 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  4.8 A  4.8 A  6.1 A	contact reliability of auxiliary contacts	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>for single-phase AC motor</li> <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 480 V rated value</li> <li>at 250/208 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>5 hp</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>	UL/CSA ratings	
<ul> <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>● 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>5 hp</li> <li>Contact rating of auxiliary contacts according to UL</li> </ul>	full-load current (FLA) for 3-phase AC motor	
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	• at 480 V rated value	4.8 A
<ul> <li>for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  0.75 hp  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  contact rating of auxiliary contacts according to UL  0.25 hp  0.75 hp  1.5 hp  2 hp  3 hp  5 hp  A600 / Q600</li> </ul>	at 600 V rated value	6.1 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>5 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>0.25 hp</li> <li>1.5 hp</li> <li>2 hp</li> <li>3 hp</li> <li>5 hp</li> <li>A600 / Q600</li> </ul>	yielded mechanical performance [hp]	
<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>Contact rating of auxiliary contacts according to UL</li> </ul> 0.75 hp 1.5 hp 5 hp A600 / Q600	<ul> <li>for single-phase AC motor</li> </ul>	
● 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	<ul> <li>— at 110/120 V rated value</li> </ul>	0.25 hp
— 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	— at 230 V rated value	0.75 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	<ul> <li>for 3-phase AC motor</li> </ul>	
- 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	— at 200/208 V rated value	1.5 hp
— at 575/600 V rated value 5 hp  contact rating of auxiliary contacts according to UL A600 / Q600	— at 220/230 V rated value	2 hp
contact rating of auxiliary contacts according to UL A600 / Q600	— 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
design of the fuse link		
for short-circuit protection of the main circuit	_	
— with type of coordination 1 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)		αG: 35A (690V 100kA), aM: 20A (690V 100kΔ), RS88: 35Δ (415V 80kΔ)
— with type of assignment 2 required gG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,		
— with type of assignment 2 required 90. 20A (690 V, 100 kA), awi. 10A (690 V, 100 kA), B366. 20A (413 V, 80 kA)	- with type of assignment 2 required	
,	<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
	required	

Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
fastening method	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
• side-by-side mounting	Yes
height	58 mm
width	45 mm
depth	73 mm
required spacing	70 11111
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— 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
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	
<ul> <li>for main contacts</li> </ul>	
— 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)
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main	
contacts	0.5 4 mm²
solid     stranded	0.5 4 mm² 0.5 4 mm²
	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing     connectable conductor cross-section for auxiliary	0.0 4.0 IIIIII
contacts	
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
<ul> <li>finely stranded with core end processing</li> </ul>	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
Safety related data	
product function	
	Yes
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	
mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920	1 000 000
	1 000 000

<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 y
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
suitability for use	
<ul> <li>safety-related switching OFF</li> </ul>	Yes
0	

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Special Test Certificate Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

**Dangerous Good** 



Confirmation



Transport Information

## **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=3RT2015-1BE42

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-1BE42}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BE42

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

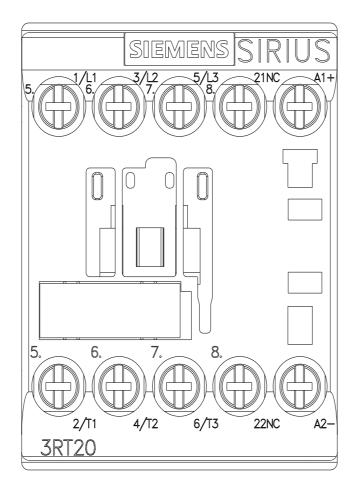
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-1BE42&lang=en

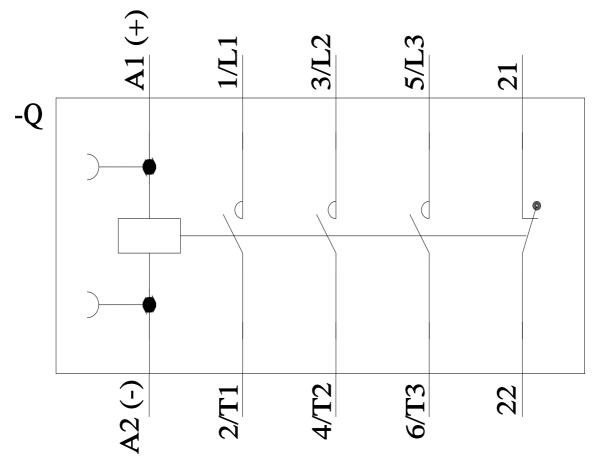
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BE42/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1BE42&objecttype=14&gridview=view1





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