## **SIEMENS**

Data sheet 3RT2015-1WB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC,  $0.85\text{-}1.85^{*}$  Us, with varistor plugged on, auxiliary contacts: 1 NO, screw terminal, size: S00, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling 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	No
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
<ul> <li>without load current share typical</li> </ul>	1.6 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	
of main circuit rated value	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)	
of contactor typical	30 000 000
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

<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	000 V
at AC-1 at 400 V at ambient temperature 40 °C rated	18 A
• at AC-1 at 400 v at ambient temperature 40 °C rated value	10 /
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	18 A
value	
— up to 690 V at ambient temperature 60 °C rated	16 A
value	
• at AC-3	7.0
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	7.0
— 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     at AC-5b up to 400 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	4.0
— 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	0.7.4
— up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	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
and the second s	
operational current	
operational current  ● at 1 current path at DC-1	
at 1 current path at DC-1  at 24 V rated value	15 A
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul>	15 A
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	15 A 1.5 A
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	15 A 1.5 A 0.6 A
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	15 A 1.5 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 60 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 2 current paths in series at DC-1</li> </ul>	15 A 1.5 A 0.6 A 0.42 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>at 60 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 2 current paths in series at DC-1</li> </ul>	15 A 1.5 A 0.6 A 0.42 A 0.42 A
<ul> <li>at 1 current path at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> </ul> </li> </ul>	15 A 1.5 A 0.6 A 0.42 A 0.42 A
<ul> <li>at 1 current path at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul> </li> </ul>	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 24 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 240 V rated value  at 340 V rated value  at 340 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 15 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 24 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 140 V rated value  at 440 V rated value  at 440 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 8.4 A 1.2 A 0.6 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 24 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 240 V rated value  at 340 V rated value  at 340 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 8.4 A 1.2 A 0.6 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 440 V rated value  at 440 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  with 3 current paths in series at DC-1	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 15 A 8.4 A 1.2 A 0.6 A 0.5 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 440 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 8.4 A 1.2 A 0.6 A 0.5 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 110 V rated value  at 440 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 24 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 8.4 A 1.2 A 0.6 A 0.5 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 220 V rated value  at 440 V rated value  at 440 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 16 A 1.2 A 0.6 A 0.5 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 8.4 A 1.2 A 0.6 A 0.5 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 440 V rated value  at 600 V rated value  at 110 V rated value  at 24 V rated value  at 24 V rated value  at 25 V rated value  at 26 V rated value  at 440 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 1.2 A 0.6 A 0.5 A 15 A 15 A 15 A 15 A 15 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 440 V rated value  at 600 V rated value  at 24 V rated value  at 24 V rated value  at 24 V rated value  at 600 V rated value  at 440 V rated value  at 600 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 1.2 A 0.6 A 0.5 A 15 A 15 A 15 A 15 A 15 A
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 24 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  at 440 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 8.4 A 1.2 A 0.6 A 0.5 A  15 A 15 A 15 A 10 A 10 A 10 A 11 A 11 A 11 A 11 A 11
at 1 current path at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  with 2 current paths in series at DC-1  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 220 V rated value  at 440 V rated value  at 600 V rated value  at 24 V rated value  at 60 V rated value  at 440 V rated value  at 60 V rated value  at 600 V rated value	15 A 1.5 A 0.6 A 0.42 A 0.42 A 15 A 15 A 15 A 1.2 A 0.6 A 0.5 A  15 A 15 A 15 A 15 A 15 A 15 A 15 A

— at 24 V rated value	15 A
— at 60 V rated value	3.5 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 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-	
4	
• at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	1.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	2.7 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	3.3 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	4.3 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	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 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	67 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	52 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	43 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
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.85
full-scale value	1.85
design of the surge suppressor	with varistor
closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC	1.6 W
closing delay	1.O VV
moany neray	

and DC	25 420
• at DC	25 120 ms
opening delay	5 00
• at DC	5 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	1
number of NO contacts for auxiliary contacts instantaneous contact	
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	
<ul><li>at 24 V rated value</li></ul>	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
	4.8 A
full-load current (FLA) for 3-phase AC motor	4.8 A 6.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for single-phase AC motor	6.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value	6.1 A 0.25 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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	6.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • for 3-phase AC motor	0.25 hp 0.75 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • for 3-phase AC motor  — at 200/208 V rated value	6.1 A  0.25 hp 0.75 hp 1.5 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	6.1 A  0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position	0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height	0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 58 mm
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 58 mm 45 mm
full-load current (FLA) for 3-phase AC motor  at 480 V rated value  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  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  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit  with type of assignment 2 required  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  side-by-side mounting  height  width  depth	0.25 hp 0.75 hp  1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 58 mm
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • 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  • 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  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600  gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 58 mm 45 mm

<ul><li>— downwards</li><li>• for live parts</li></ul>	10 mm
— at the side	6 mm
	10 11111
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	O THIRD
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	
at contactor for auxiliary contacts	screw-type terminals Screw-type terminals
·	
of magnet coil  type of connectable conductor cross-sections for main contacts	Screw-type terminals
solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid     solid or stranded	2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm²
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded with core end processing  connectable conductor cross-section for main contacts	28 (0.5 1.5 11111 ), 28 (0.75 2.5 11111 )
solid	0.5 4 mm²
• stranded	0.5 4 mm²
	0.5 4 mm²
finely stranded with core end processing     connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 4 mm²
type of connectable conductor cross-sections	0.5 2.5 mm
• 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)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross	ZA (20 10), ZA (10 17), ZA 12
section	
• for main contacts	20 12
• for auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	No
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<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 a
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	
	V
<ul> <li>safety-related switching OFF</li> </ul>	Yes





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

Railway

**Dangerous Good** 

Environment



Confirmation



Vibration and Shock

**Transport Information** 

Environmental Confirmations

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2015-1WB41

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-1WB41}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1WB41

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

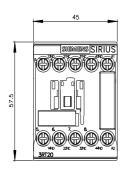
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-1WB41&lang=en

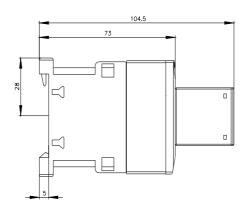
Characteristic: Tripping characteristics, I2t, Let-through current

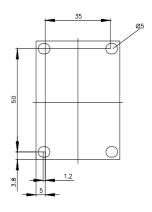
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1WB41/char

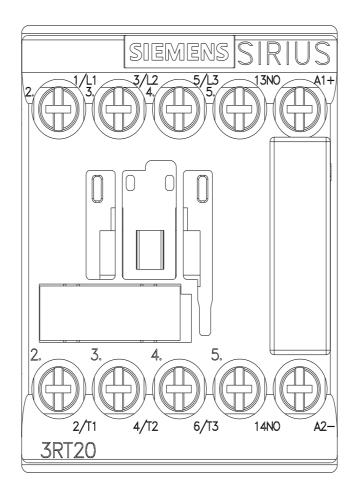
Further characteristics (e.g. electrical endurance, switching frequency)

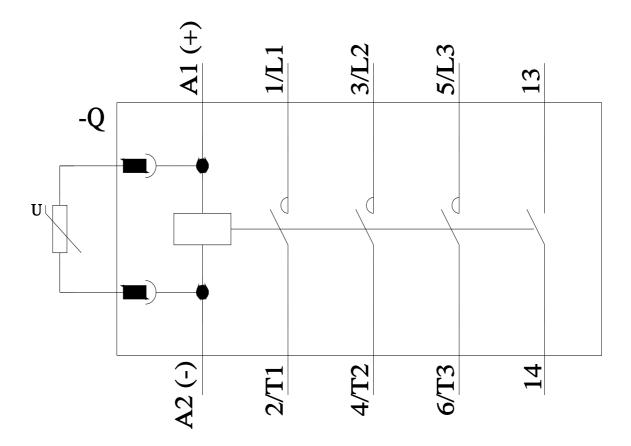
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2015-1WB41\&objecttype=14\&gridview=view1}$ 











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