SIEMENS

Data sheet

3RT2015-1JB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, with integrated diode, auxiliary contacts: 1 NO, screw terminal, size: S00, suitable for PLC outputs, 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	
 function module for communication 	No
 auxiliary switch 	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	2.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	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	
during operation	-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

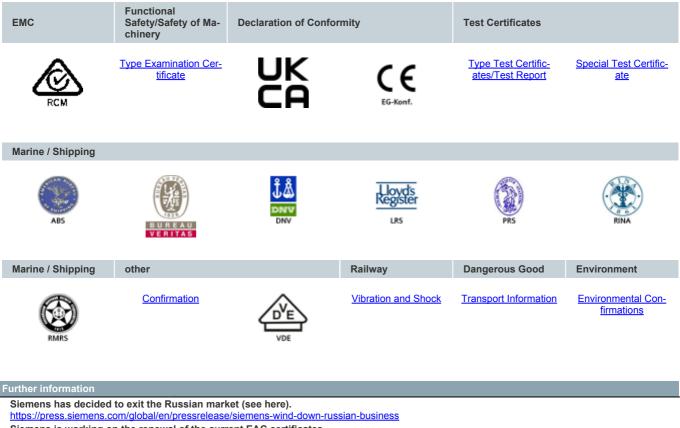
a at AC 20 rated value maximum	600 \/
• at AC-3e rated value maximum operational current	690 V
at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	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	
— 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	
 — 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 ²
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 A
— at 60 V rated value	15 A
— 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	
— 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
 with 2 current paths in series at DC-3 at DC-5 	

- at DV rade value 0.5.5.4 - at 110 V rade value 0.5.6 - at 22 V rade value 10.5 - at 22 V rade value 15.4 - at 24 V value value 15.4 - at 25.0 V rade value 15.5 kW - at 25.0		
	— at 24 V rated value	15 A
• with 3 current paths in series at DC-3 at DC-3- at 24 V rated value15 A- at 10 V rated value15 A- at 110 V rated value15 A- at 24 V rated value15 A- at 240 V rated value15 A- at 240 V rated value0.14 A- at 240 V rated value0.14 A- at 250 V rated value1.5 KW- at 260 V rated value3 KW- at 260 V rated value1.5 KW- at 260 V fract value2.5 KA- at 260 V fract value<	— 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 600 V rated value 0.14 A oprating power - at 230 V rated value 1.5 kW → at 400 V rated value 3 kW → at 600 V rated value 4 kW opporting power for approx. 20000 operating cycles at AC-4 4 kW • at 600 V rated value 1.5 kW • at 600 V fract value 1.5 kW • at 600 V fract value 1.5 kW • at 600 V fract value 3.8 kA • up to 500 V for current peak value n=20 rated value 3.8 kA • up to 500 V for current peak value n=30 rated value 3.8 kA • up to 500 V for current peak value n=30 rated value 3.8 kA • up to 500 V for current peak value n=30 rated value 2.8 kVA • up to 500 V for current peak value n=30 rated value 2.8 kVA • up to 500 V for current peak value n=30 rated value	— at 220 V rated value	1.2 A
operating power • at AC-3	— at 440 V rated value	0.14 A
et AC-3	— 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 AC-3e	— 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
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value 2.8 kVA short-time withstand current in cold operating state up to d0°C • limited to 1 s switching at zero current maximum 100 K use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • l	— at 500 V rated value	3 kW
	— at 690 V rated value	4 kW
• at 400 V rated value 1.15 kW • at 690 V rated value 1.15 kW operating apparent power at AC-6a 5 kVA • up to 500 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 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 • up to 230 V for current peak value n=30 rated value 4.3 kVA • up to 230 V for current peak value n=30 rated value 1.8 kVA • up to 500 V for current peak value n=30 rated value 2.2 kVA • up to 500 V for current peak value n=30 rated value 2.8 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA short-time withstand current in cold operating state up to 40 °C 2.9 kVA short-time withstand current maximum 120 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 62 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 62 A; Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h operating frequency 10 0000 1/h </td <td></td> <td></td>		
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 • 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 680 V for current peak value n=20 rated value • up to 680 V for current peak value n=20 rated value • up to 680 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • up to 680 V for current maximum • 120 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum • 67 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum • 67 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum • 10 000 1/h • at AC-1 maximum • 100 001 /h • at AC-3 maximum • 100 01/h • at AC-3 maximum • at AC-3 maximum • 750 1/h • at AC-4 maximum • 750 1/h • at AC-3 maximum • 750 1/h • at AC-4 maximum • 750 1/h • at		
• 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 • 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 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 • up to 690 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 • up to 690 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 • up to 690 V for current peak value n=30 rated value • 2.9 kVA • up to 690 V for current peak value n=30 rated value • 2.9 kVA • up to 690 V for current maximum • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • I 100 000 1/h • at AC-1 maximum • limited to 10 s switching at zero current maximum • 100 000 1/h • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum		
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• limited to 30 s switching at zero current maximum52 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency-• at DC10 000 1/hoperating frequency-• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h	 limited to 5 s switching at zero current maximum 	86 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 10 000 1/h • at DC 10 000 1/h operating frequency 1 000 1/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-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum DC control circuit/ Control UC type of voltage of the control supply voltage DC control supply voltage at DC 24 V	 limited to 10 s switching at zero current maximum 	67 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 10 000 1/h • at DC 10 000 1/h operating frequency 1 000 1/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 • at AC-4 maximum 250 1/h • at AC-4 maximum DC control circuit/ Control 250 1/h type of voltage of the control supply voltage DC control supply voltage at DC 24 V	-	52 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency• at DC10 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlUtype of voltage of the control supply voltageDCcontrol supply voltage at DC24 V	-	43 A; Use minimum cross-section acc. to AC-1 rated value
• at DC10 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDCControl circuit/ ControlDCtype of voltage of the control supply voltageDC• rated value24 V		
operating frequencyI 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDC• rated value24 V		10 000 1/h
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDC• rated value24 V		
• at AC-3 maximum 750 1/h • at AC-3e maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 250 1/h Control circuit/ Control DC control supply voltage at DC 0 • rated value 24 V		1 000 1/h
• at AC-3e maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 250 1/h type of voltage of the control supply voltage DC control supply voltage at DC 24 V	● at AC-2 maximum	750 1/h
• at AC-4 maximum 250 1/h Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC 24 V	● at AC-3 maximum	750 1/h
• at AC-4 maximum 250 1/h Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC 24 V		750 1/h
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value 24 V		250 1/h
type of voltage of the control supply voltage DC control supply voltage at DC 24 V	Control circuit/ Control	
control supply voltage at DC • rated value 24 V		DC
• rated value 24 V		
operating range factor control supply voltage rated value of		24 V
magnet coil at DC	operating range factor control supply voltage rated value of magnet coil at DC	
• initial value 0.7	initial value	0.7
• full-scale value 1.25	• full-scale value	1.25
design of the surge suppressor diode	design of the surge suppressor	diode
closing power of magnet coil at DC 2.8 W		2.8 W
holding power of magnet coil at DC 2.8 W	holding power of magnet coil at DC	2.8 W
closing delay	closing delay	

• at DC	25 130 ms
opening delay	
• at DC	38 65 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	
• at 24 V rated value	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	1A
at 600 V rated value	0.15 A
operational current at DC-13	10.1
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	1 A 0.9 A
 at 125 V rated value at 220 V rated value 	0.9 A
at 600 V rated value	0.5 A 0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
	· · · · · · · · · · · · · · · · · · ·
UL/CSA ratings	
	4.8 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	4.8 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	4.8 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	4.8 A
UL/CSA ratings 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	4.8 A 6.1 A
UL/CSA ratings 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	4.8 A 6.1 A 0.25 hp
UL/CSA ratings 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	4.8 A 6.1 A 0.25 hp
UL/CSA ratings 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	4.8 A 6.1 A 0.25 hp 0.75 hp
UL/CSA ratings 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp
UL/CSA ratings 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp
UL/CSA ratings 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp
UL/CSA ratings 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 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp
UL/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 yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp
UL/CSA ratings • at 480 V rated value • at 600 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 - at 575/600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp
UL/CSA ratings • at 480 V rated value • at 600 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/CSA ratings • at 480 V rated value • at 600 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	4.8 A 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)
UL/CSA ratings • at 480 V rated value • at 600 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/CSA ratings • at 480 V rated value • at 600 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 - with type of coordination 1 required - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/CSA ratings • at 480 V rated value • at 600 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 - at 575/600 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	4.8 A 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)
UL/CSA ratings • at 480 V rated value • at 600 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 - with type of coordination 1 required - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/CSA ratings • at 480 V rated value • at 600 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 - at 575/600 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/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 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 - 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/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 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 - 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/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 yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value - at 200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - with type of coordination 1 required - 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600
UL/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 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 - 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	4.8 A 6.1 A 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600

— 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
	10 1111
• 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 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
	$2 \times (0.5 - 1.5 \text{ mm}^2) 2 \times (0.75 - 0.5 \text{ mm}^2) 2 \times 4 \text{ mm}^2$
• solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid or stranded	$2 \times (0.5 + 1.5 \text{ mm}^2) = 2 \times (0.75 + 0.5 \text{ mm}^2) = 2 \times 4 \text{ mm}^2$
	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
- finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for 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	
 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	
with low demand rate according to SN 31920	40 %
-	
with high demand rate according to SN 31920	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	
 safety-related switching OFF 	Yes
Certificates/ approvals	
General Product Approval	
Constant rouger Approval	

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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=3RT2015-1JB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1JB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1JB41

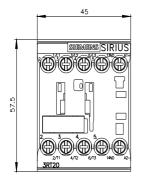
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

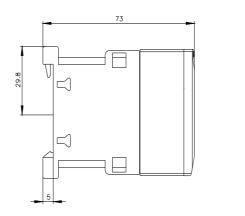
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1JB41&lang=en

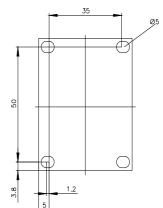
Characteristic: Tripping characteristics, I²t, Let-through current

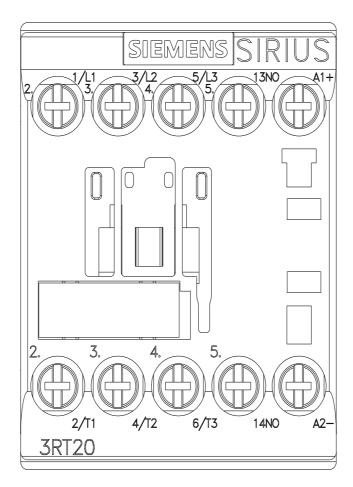
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1JB41/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1JB41&objecttype=14&gridview=view1

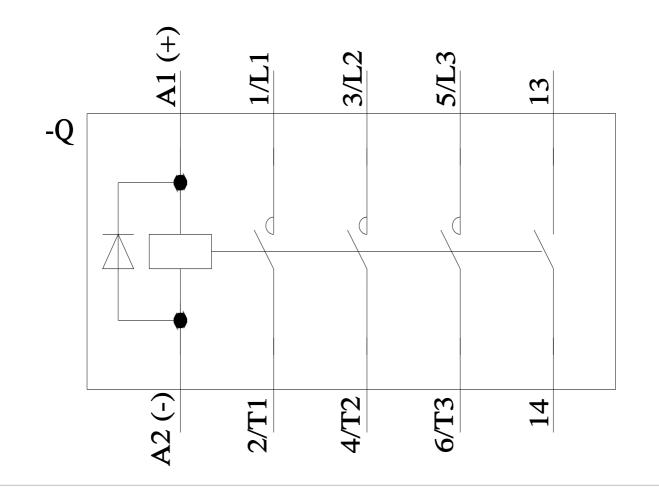








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