SIEMENS

Data sheet

3RT2015-2BB44-3MA0



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00, captive auxiliary switch

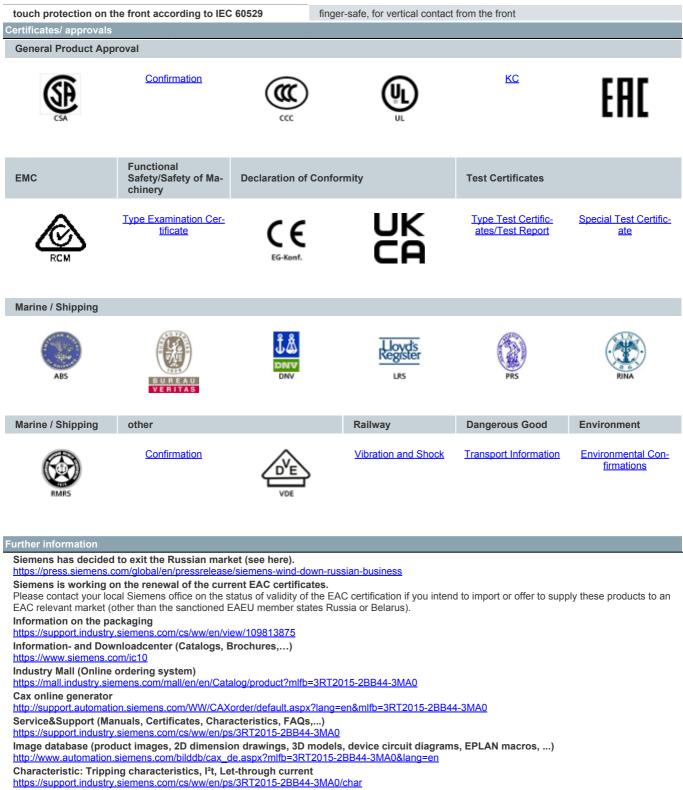
product brand name SIRIUS product designation Power contactor product type designation 3RT2 General technical data S00 product extension S00 • function module for communication No		
product type designation 3RT2 General technical data size of contactor size of contactor S00 product extension S00		
General technical data size of contactor S00 product extension		
size of contactor S00 product extension 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 4 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		
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 10 000 000		
of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical		
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		
• 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 95 % 95 %		
Main circuit		
number of poles for main current circuit 3		

number of NO contacts for main contacts	3
operating voltage	5
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	18 A
value	
• 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 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 	

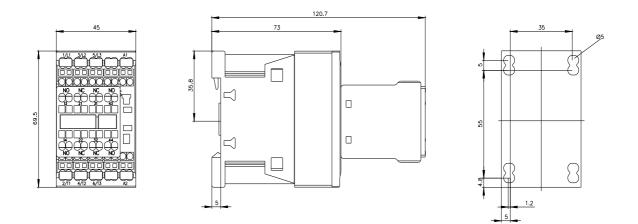
• • • • • • • • • • • • • • • • • • •	— at 24 V rated value	15 A
		0.35 A
	-	
	— at 24 V rated value	
• with 3 current paths in series at DC-3 at DC-3- at 24 V rated value15 A- at 20 V rated value15 A- at 10 V rated value16 A- at 40 V rated value0.14 A- at 40 V rated value0.14 A- at 400 V rated value0.14 A- at 400 V rated value15 KW- at 400 V rated value15 KW- at 400 V rated value15 KW- at 400 V rated value3 KW- at 300 V rated value3 KW- at 300 V rated value3 KW- at 300 V rated value3 KW- at 400 V rated value3 KW- at 600 V rated value15 KW- at 600 V rated value3 KW- at 600 V rated value3 KW- at 600 V rated value15 KW- at 600 V for current pack value n20 rated value15 KW-	— at 60 V rated value	
	— at 110 V rated value	0.25 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	15 A
	— at 60 V rated value	15 A
	— at 110 V rated value	15 A
	— at 220 V rated value	1.2 A
operating power	— at 440 V rated value	0.14 A
	— at 600 V rated value	0.14 A
- al 230 V rated value1.5 kW- al 400 V rated value3 W- al 600 V rated value3 W- al 600 V rated value4 W- al 230 V rated value1.5 kW- al 400 V rated value3 W- al 400 V rated value3 W- al 600 V rated value1.5 kW- al 600 V rated value1.5 kW- al 600 V rated value1.15 kW- al 600 V rated value1.15 kW- al 600 V rated value2.15 kW- al 600 V rated value3.16 kW- al 600 V rated value3.16 kW- al 600 V for current pack value n=20 rated value3.16 kW- up to 200 V for current pack value n=20 rated value3.3 kW- up to 500 V for current pack value n=20 rated value3.3 kW- up to 500 V for current pack value n=20 rated value2.3 kW- up to 500 V for current pack value n=20 rated value2.3 kW- up to 500 V for current pack value n=20 rated value2.8 kW- up to 500 V for current pack value n=30 rated value2.8 kW- up to 500 V for current pack value n=30 rated value2.8 kW- up to 500 V for current pack value n=30 rated value2.8 kW- up to 500 V for current pack value n=30 rated value2.8 kW- up to 500 V for current pack value n=30 rated value3.8 kW- up to 500 V for current pack value n=30 rated value2.8 kW- up to 500 V for current pack value n=30 rated value3.8 kW <t< td=""><td>operating power</td><td></td></t<>	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 680 V rated value 4 kW operating power for approx. 200000 operating cycles at AC- 4 at 400 V rated value 1.15 kW • at 600 V rated value 1.15 kW • at 600 V rated value 1.15 kW • up to 230 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 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 1.8 kVA • up to 230 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 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • united to 1 s switching at zero current maximum 60 A (Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 62 A, Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 62 A, Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero curent maximum 100 01/h • a	— at 400 V rated value	3 kW
operating power for approx. 200000 operating cycles at AC- at 400 V rated value 1.15 kW at 690 V rated value 1.15 kW operating apparent power at AC-6a up to 200 V for current peak value n=20 rated value 2.7 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=30 rated value 4.3 kVA operating apparent power at AC-6a 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 operating apparent power at AC-6a 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 500 V for current peak value n=30 rated value 2.9 kVA Imited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 6 s switching at zero current maximum 100 A; Use minimum cross-section acc. to AC-1 rated value at AC-1 maximum at AC-1 maximum at AC-3 maximum at AC-4	— at 500 V rated value	3 kW
	— at 690 V rated value	4 kW
• at 400 V rated value1.15 kW• at 600 V rated value1.15 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value1.5 kVA• up to 230 V for current peak value n=20 rated value2.7 kVA• up to 500 V for current peak value n=20 rated value3.3 kVA• up to 500 V for current peak value n=20 rated value4.3 kVA• up to 500 V for current peak value n=30 rated value4.3 kVA• up to 400 V for current peak value n=30 rated value2.2 kVA• up to 500 V for current peak value n=30 rated value2.8 kVA• up to 500 V for current peak value n=30 rated value2.8 kVA• up to 500 V for current peak value n=30 rated value2.8 kVA• up to 500 V for current peak value n=30 rated value2.8 kVA• up to 500 V for current maximum120 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum87 A; Use minimum cross-section acc. to AC-1 rated value• at DC0000 1/h• at AC-1 maximum10 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum </td <td></td> <td></td>		
• at 680 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 4.3 kVA • up to 500 V for current peak value n=20 rated value 4.3 kVA • up to 500 V for current peak value n=30 rated value 1.8 kVA • up to 500 V for current peak value n=30 rated value 2.8 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 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • imited to 1 s switching at zero current maximum 80 k. Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 52 k. Use minimum cross-section acc. to AC-1 rated value • al DC 10 000 1/h 10 000 1/h • at AC-1 maximum 1000 1/h 10000 1/h • at A		
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• up to 400 V for current peak value n=20 rated value 2.7 kVA • up to 580 V for current peak value n=20 rated value 3.3 kVA • up to 680 V for current peak value n=20 rated value 3.3 kVA operating apparent power at AC-6a 4.0 kVA • up to 230 V for current peak value n=30 rated value 1.8 kVA • up to 400 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 2.2 kVA • up to 500 V for current peak value n=30 rated value 2.2 kVA short-time withstand current in cold operating state up to 40 °C 100 KVA • up to 500 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 10 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 67 A; Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h operating frequency • at DC-1 rated value • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h		4.51)/4
• up to 500 V for current peak value n=20 rated value 3.3 kVA • up to 590 V for current peak value n=20 rated value 4.3 kVA • up to 230 V for current peak value n=30 rated value 1 kVA • up to 500 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 2.9 kVA • bot 500 V for current peak value n=30 rated value 2.9 kVA • or time withstand current in cold operating state up to 40 °C 120 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 120 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 52 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 100 01/h • at DC 10 000 1/h • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 520 1/h • at AC-4 maximum 250 1/h <		
• up to 690 V for current peak value n=20 rated value 4.3 kVA operating apparent power at AC-6a 1 kVA • up to 230 V for current peak value n=30 rated value 1 kVA • up to 600 V for current peak value n=30 rated value 2.8 kVA • 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 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 peak value n=30 rated value 2.9 kVA • up to 690 V for current neak value n=30 rated value 2.9 kVA • up to 690 V for current neak value n=30 rated value 2.9 kVA • up to 690 V for current neak value n=30 rated value 2.9 kVA • up to 690 V for current neak value n=30 rated value 2.9 kVA • imited to 1 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h 10 000 1/h • at AC-1 maximum 1000 1/h 10 000 1/h • at AC-3 maximum		
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tip to 230 V for current peak value n=30 rated value ip to 230 V for current peak value n=30 rated value ip to 500 V for current peak value n=30 rated value ip to 500 V for current peak value n=30 rated value 2.2 kVA vup to 690 V for current peak value n=30 rated value 2.2 kVA vup to 690 V for current peak value n=30 rated value 2.2 kVA vup to 690 V for current peak value n=30 rated value 2.2 kVA vup to 690 V for current peak value n=30 rated value 2.2 kVA vup to 690 V for current peak value n=30 rated value 2.2 kVA vup to 690 V for current peak value n=30 rated value 2.9 kVA vup to 690 V for current peak value n=30 rated value 2.9 kVA vup to 690 V for current peak value n=30 rated value 2.9 kVA vup to 690 V for current peak value n=30 rated value 2.9 kVA vup to 690 V for current peak value n=30 rated value 2.9 kVA vup to 690 V for current peak value n=30 rated value 2.9 kVA vup to 690 V for current maximum 120 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 10 s switching at zero current maximum 67 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated value inted value inted to 10 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated value inted value it DC 10 000 1/h operating frequency it AC-2 maximum 50 1/h it AC-3 maximum 50 1/h it AC-4 maximum zer V vuperating range factor control supply voltage DC control supply voltage at DC intial value		4.3 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 • up to 680 V for current peak value n=30 rated value • up to 680 V for current peak value n=30 rated value • 2.9 kVA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • lo 000 1/h • at AC-1 maximum • at AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maxi		
• up to 500 V for current peak value n=30 rated value2.2 kVA• up to 690 V for current peak value n=30 rated value2.9 kVAshort-time withstand current in cold operating state up to 40 °C2.9 kVA• limited to 1 s switching at zero current maximum120 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum67 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum67 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum52 A; Use minimum cross-section acc. to AC-1 rated value• limited to 68 switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated value• limited to 68 switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated value• limited to 68 switching at zero current maximum10 000 1/hno-load switching frequency • at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-3 maximum250 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum24 V• perating range factor control supply voltage rated value of magnet coll at DC0.8• ninitial value0.8• full-scale value1.1		
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short-time withstand current in cold operating state up to 40 °C Imited to 1 s witching at zero current maximum ilimited to 1 s witching at zero current maximum 120 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 1 s switching at zero current maximum 67 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 10 s switching at zero current maximum 67 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 60 s 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 43 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h e at DC 10 000 1/h operating frequency 1000 1/h e at AC-3 maximum 750 1/h e at AC-3 maximum 750 1/h e at AC-3 maximum 250 1/h control circuit/ Control Uc type of voltage of the control supply voltage DC control supply voltage at DC 24 V operating range factor control supply voltage rated value of magnet coil at DC 24 V operating range factor control supply voltage rated value of magnet coil at DC 24 V		
40 °C• limited to 1 s witching at zero current maximum120 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum67 A; Use minimum cross-section acc. to AC-1 rated value• 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 value• limited to 60 s switching at zero current maximum43 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 value• limited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 switching frequency10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• control supply voltageDC• control supply voltage at DC24 V• arated value24 V• perating range factor control supply voltage rated value0.8• initial value0.8• full-scale value1.1		2.9 KVA
Imited to 5 s switching at zero current maximum86 A, Use minimum cross-section acc. to AC-1 rated valueImited to 10 s switching at zero current maximum67 A; Use minimum cross-section acc. to AC-1 rated valueImited to 30 s switching at zero current maximum52 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 50 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 50 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 50 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 50 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueImited to 50 s switching at zero current maximum1000 1/hImited to 50 solution750 1/hImited AC-3 maximum750 1/hImited to 10 supply voltage at DC250 1/hImited to 20 solution control supply voltage rated value of magnet coll at DC24 VImited value0.8Imited value0.8Imited value0.8Imited value1.1		
• limited to 10 s switching at zero current maximum67 A; Use minimum cross-section acc. to AC-1 rated value• 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 frequency43 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/hoperating frequency10 000 1/h• 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 maximum750 1/h• at AC-4 maximum750 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h• at AC-4 maximum750 1/h• at AC-4 maximum200 1/h• at AC-4 maximum20 1/h• at AC-4 maximum20 1/h• at AC-4 maximum24 V• at act a value0.8• initial value0.8• initial value0.8• full-scale value1.1	 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
• 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 frequency10 000 1/h• at DC10 000 1/hoperating frequency1000 1/h• 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 maximum260 1/h• at AC-4 maximum0.8• at AC-4 maximum0.8• at AC-4 maximum0.8• at AC-4 maximum0.8• at AC-4 maximum1.1 <td> limited to 5 s switching at zero current maximum </td> <td></td>	 limited to 5 s switching at zero current maximum 	
• limited to 60 s switching at zero current maximum43 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• 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-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• control supply voltage at DCDC• rated value24 V• rated value0.8• initial value0.8• full-scale value1.1	 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency10 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-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDCControl circuit/ ControlDC• rated value24 V• rated value0.8• initial value0.8• full-scale value1.1	 limited to 30 s switching at zero current maximum 	52 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-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• control supply voltage at DCDC• rated value24 V• rated value24 V• initial value0.8• full-scale value1.1	 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value
operating 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-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• control circuit/ ControlDCControl supply voltage at DC24 V• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC0.8• initial value0.8• full-scale value1.1	no-load switching 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• control circuit/ ControlDC• rated value24 V• perating range factor control supply voltage rated value of magnet coil at DC0.8• initial value0.8• full-scale value1.1	• at DC	10 000 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/ ControlDCcontrol supply voltage at DC0• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC0.8• initial value0.8• full-scale value1.1	operating frequency	
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• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDC• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC0.8• initial value0.8• full-scale value1.1	• 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 • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1		750 1/h
Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1		250 1/h
control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	Control circuit/ Control	
• rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	type of voltage of the control supply voltage	DC
operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1	control supply voltage at DC	
magnet coil at DC • initial value 0.8 • full-scale value 1.1	rated value	24 V
• initial value 0.8 • full-scale value 1.1		
• full-scale value 1.1	-	0.8
closing power of magnet coil at DC 4 W	• full-scale value	1.1
	closing power of magnet coil at DC	4 W

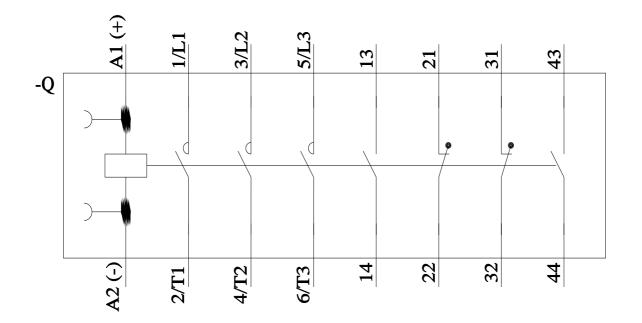
holding newsy of magnet coll at DC	4 107
holding power of magnet coil at DC	4 W
e at DC	30 100 ms
	50 100 ms
opening delay • at DC	7 13 ms
	10 15 ms
arcing time	Standard A1 - A2
control version of the switch operating mechanism	Stanuaru AT - Az
Auxiliary circuit	0
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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	
• at 24 V rated value	6 A
at 24 V rated value at 48 V rated value	2 A
• at 60 V rated value	2 A 2 A
at 50 v rated value at 110 V rated value	1A
	0.9 A
at 125 V rated value	
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm

width	45 mm
depth	121 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— 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	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
 of magnet coil 	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm²)
 solid or stranded 	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 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
 finely stranded without core end processing 	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm ²)
 finely stranded with core end processing finely stranded without core end processing 	2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)
 finely stranded without core end processing for AWG cables for auxiliary contacts 	2x (0.5 2.5 mm ⁻) 2x (20 12)
for AWG cables for auxiliary contacts 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	Yes
positively driven operation according to IEC 60947-5-1	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	10.1/
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
President and the new according to the coold	



- Further characteristics (e.g. electrical endurance, switching frequency)
- http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2BB44-3MA0&objecttype=14&gridview=view1





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