SIEMENS

Data sheet

3RT2016-2AP01



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

product brand nameSIRIUSproduct designationPower contactorproduct type designation3RT2General technical datasize of contactorsize of contactorS00product extension-• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current0.9 W• at AC in hot operating state0.9 W• at AC in hot operating state per pole0.3 W• without load current share typical4.2 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 Vsurge voltage resistance6 KV• of main circuit rated value6 kV
product type designation 3RT2 General technical data size of contactor size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64 KV • of main circuit rated value 64 KV
General technical data size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit rated value 64 kV • of main circuit rated value 6 kV
size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit rated value 690 V • of main circuit rated value 690 V
product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of main circuit rated value 6 kV
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current• at AC in hot operating state0.9 W• at AC in hot operating state per pole0.3 W• without load current share typical4.2 Winsulation voltage•• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit rated value64 kV• of main circuit rated value6 kV
• auxiliary switchYespower loss [W] for rated value of the current·• at AC in hot operating state0.9 W• at AC in hot operating state per pole0.3 W• without load current share typical4.2 Winsulation voltage·• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit rated value690 V• of main circuit rated value690 V• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV
power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit rated value 690 V
 at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical without load current share typical 4.2 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
• at AC in hot operating state per pole 0.3 W • without load current share typical 4.2 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 690 V • of main circuit rated value 690 V • of auxiliary circuit rated value 64 kV
• without load current share typical 4.2 W insulation voltage 690 V • 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 690 V • of main circuit rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV
insulation voltage 6 • 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 690 V • of main circuit rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV
of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV
of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance of main circuit rated value of auxiliary circuit rated value 6 kV
surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV
of main circuit rated value 6 kV 6 kV 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 AC 6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse
• at AC 10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)
of contactor typical 30 000 000
of the contactor with added electronically optimized auxiliary switch block typical 5 000 000
of the contactor with added auxiliary switch block typical 10 000 000
reference code according to IEC 81346-2 Q
Substance Prohibitance (Date) 10/01/2009
Ambient conditions
installation altitude at height above sea level maximum 2 000 m
ambient temperature
• 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 % maximum
Main circuit
number of poles for main current circuit 3

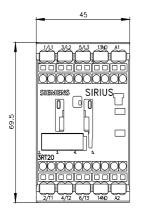
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
 up to 230 V for current peak value n=30 rated value 	3.5 A
— up to 200 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

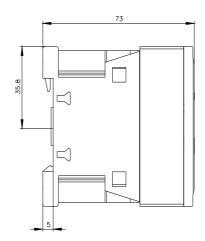
- at 24 Y Made Value - at 30 Y made Value - at 30 Y made Value - at 31 Y made Value - at 32 Y made Value - at 32 Y made Value - at 34 Y made V		00 A
	— at 24 V rated value	20 A
• with 2 current path in section at DC-3 at DC-5 20 A - at 20 V rade value 5A - at 10 V rade value 5A - at 24 V rade value 5A - at 24 V rade value 20 A - at 25 V rade value 22 A - at 25 V rade value 22 A - at 25 V rade value 55 AV - at 25 V rade value 55 AV - at 25 V rade value 55 AV - at 25 V rade value 4 KV - at 25 V rade value 2 X V - at 400 V rade value 55 AV - at 400 V rade value 2 XV - at 400 V rade value 2 X V - at 400 V rade value 2 XV - at 400 V rade value 2 XV - at 400 V rade value 2 XV - at 400 V rad		
		0.15 A
	•	
	— at 24 V rated value	20 A
• with 3 current paths in series at DC-3 at DC-5 20 - at 24 V rated value 20 A - at 26 V rated value 20 A - at 110 V rated value 20 A - at 240 V rated value 20 A - at 260 V rated value 02 A - at 260 V rated value 22 kW - at 260 V rated value 4 kW - at 260 V rated value 4 kW - at 260 V rated value 5 kW - at 250 V rated value 5 kW - at 250 V rated value 4 kW - at 600 V rated value 4 kW - at 600 V rated value 5 kW - at 600 V rated value 5 kW - at 600 V rated value 5 kW - at 600 V rated value 2 kW - at 600 V rated value 3 kWA - at 600 V rated value 3 kWA - at 600 V rated value 2 kWA - at 600 V frated value 3 kWA	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
	— at 220 V rated value	1.5 A
operating power ext AC3 - at 230 V rated value 22 kW - at 2400 V rated value 4 kW - at 690 V rated value 4 kW - at 690 V rated value 5.5 kW • at AC3 22 kW - at 690 V rated value 5.5 kW • at AC3 V rated value 4 kW - at 690 V rated value 4 kW - at 690 V rated value 4 kW - at 690 V rated value 5 kW operating power for approx. 20000 operating cycles at AC- 5 kW • at 400 V rated value 2 kW • at 600 V rated value 2 kW • up to 200 V for current pack value n=20 rated value 3 kVA • up to 500 V for current pack value n=20 rated value 3 kVA • up to 500 V for current pack value n=20 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 500 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30	— at 440 V rated value	0.2 A
• at AC-3 - at 230 V rated value 2.2 kW - at 400 V rated value 4 kW - at 500 V rated value 4 kW - at 230 V rated value 5.5 kW • at AC-3e - at 200 V rated value at 200 V rated value 2.2 kW at 200 V rated value 4 kW at 200 V rated value 2.2 kW	— at 600 V rated value	0.2 A
	operating power	
	• at AC-3	
	— at 230 V rated value	2.2 kW
	— at 400 V rated value	4 kW
e at AC-3e	— at 500 V rated value	4 kW
e at AC-3e	— at 690 V rated value	5.5 kW
	● at AC-3e	
		2.2 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3 6 kVA • up to 500 V for current peak value n=20 rated value 5 8 kVA • up to 500 V for current peak value n=30 rated value 5 8 kVA • up to 200 V for current peak value n=30 rated value 5 8 kVA • up to 200 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA Short-line withstand current in cold operating state up to 0 0*C • limited to 10 s switching at zero current maximum 115 A: Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 6A: Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • at AC- 10 000 1/h • at AC- 10 000 1/h		
A the first of the first o		
• at 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 690 V for current peak value n=20 rated value 4.6 kVA • up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a		
operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • up to 600 V for current peak value n=30 rated value 5.4 kVA • up to 600 V for current peak value n=30 rated value 4.1 kVA • initied to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60	• at 400 V rated value	2 kW
• up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA short-time withstand current in cold operating state up to 40 °C 4.6 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 57 (Use minimum cross-section acc. to AC-1 rated value • at AC- 10 000 1/h • at AC-3 maximum 1000 1/h	• at 690 V rated value	2.5 kW
 up to 400 V for current peak value n=20 rated value 3.6 kVA up to 500 V for current peak value n=20 rated value 4.6 kVA up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6 up to 500 V for current peak value n=30 rated value 1.3 kVA 2.4 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 500 V for current peak value n=30 rated value 4. 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 de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: Use minimum cross-section acc. to AC-1 rated value de A: C-3 maximum foo t/h de AC-3 maximum foo t/h de AC-3 maximum at AC-1 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value 5.9 KVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 1.3 KVA vup to 500 V for current peak value n=30 rated value 2.4 kVA vup to 500 V for current peak value n=30 rated value 2.4 kVA vup to 500 V for current peak value n=30 rated value 3.1 kVA vup to 680 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C vimited to 1 s switching at zero current maximum vimited to 1 s switching at zero current maximum vimited to 5 s switching at zero current maximum vimited to 30 s switching at zero current maximum vimited to 30 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vimited to 8 s switching at zero current maximum vis the for summa to 86 A; Use minimum cross-section acc. to AC-1 rated value vis AC vot 10 000 1/h vot AC vot 10 000 1/h vot AC vot 10 000 1/h vot AC vanimum vis AC vot 10 000 1/h vot AC vot 10 00 1/h vot AC vot 10 000 1/h	 up to 230 V for current peak value n=20 rated value 	2 kVA
• up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-Ga 1.3 kVA • up to 230 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4. kVA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 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-4 maximum 250 1/h Control cincuit Control 100 V </td <td> up to 400 V for current peak value n=20 rated value </td> <td>3.6 kVA</td>	 up to 400 V for current peak value n=20 rated value 	3.6 kVA
operating apparent power at AC-6a 1.3 kVA • up to 230 V for current peak value n=30 rated value 1.3 kVA • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 690 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 4.1 kVA • limited to 1 s switching at zero current maximum 1155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h <td> up to 500 V for current peak value n=20 rated value </td> <td>4.6 kVA</td>	 up to 500 V for current peak value n=20 rated value 	4.6 kVA
• up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC-1 maximum • limited to 10 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC-1 maximum 1 000 1/h • at AC-2 maximum 1000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control circuit Control Vpe of voltage of the control supply voltage AC • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 320 V	 up to 690 V for current peak value n=20 rated value 	5.9 kVA
• up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C - • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC-1 maximum 10000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 750 1/h • at AC-4 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 230 V • at 60 Hz rated val	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value3.1 kVA• up to 690 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to 40 °C4 VA• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• obd S switching at zero current maximum56 A; Use minimum cross-section acc. to AC-1 rated value• at AC0 000 1/h• at AC10 000 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	 up to 230 V for current peak value n=30 rated value 	1.3 kVA
• up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40°C 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency • • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control V type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rat	 up to 400 V for current peak value n=30 rated value 	2.4 kVA
short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC 10 000 1/h • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • control supply voltage at AC 230 V • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V	• up to 500 V for current peak value n=30 rated value	3.1 kVA
40 °C • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at AC 0 000 1/h • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control circuit/ Control V • at S0 Hz rated value 230 V • at 60 Hz rated value 230 V <td>• up to 690 V for current peak value n=30 rated value</td> <td>4 kVA</td>	• up to 690 V for current peak value n=30 rated value	4 kVA
 limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value limited to 5 s switching at zero current maximum limited to 10 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 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value at AC-1 maximum oto 000 1/h at AC-1 maximum 1000 1/h at AC-2 maximum 1000 1/h at AC-3 maximum 750 1/h at AC-3 maximum 250 1/h Control supply voltage at AC at 50 Hz rated value 230 V at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC 	short-time withstand current in cold operating state up to	
• limited to 5 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching frequency 55 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h operating frequency 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V	40 °C	
 limited to 10 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 66 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency at AC 10 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum bype of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value at 50 Hz rated value at 60 Hz rated value by V 	 limited to 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
 Iimited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value Iimited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency at AC 10 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-1 maximum 1000 1/h at AC-2 maximum 50 1/h at AC-3 maximum 50 1/h at AC-3 maximum 50 1/h at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage AC at 50 Hz rated value 230 V at 60 Hz rated value 230 V 	 limited to 5 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at AC 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-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control XC type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V	 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency 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 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h Control circuit/ Control X type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V	 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
• at AC10 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 maximum250 1/h• at AC-4 maximum230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V	 limited to 60 s switching at zero current maximum 	55 A; Use minimum cross-section acc. to AC-1 rated value
operating frequencyI• 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 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageACAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value of magnet coil at ACImage: Coil at AC	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-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V	• at AC	10 000 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/ Control250 1/hControl circuit/ Controltype of voltage of the control supply voltageACcontrol supply voltage at AC230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 Voperating range factor control supply voltage rated value of magnet coil at ACImagnet coil at AC	operating frequency	
• 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/ Controltype of voltage of the control supply voltageAC• at 50 Hz rated value230 V• at 60 Hz rated value230 V• operating range factor control supply voltage rated value of magnet coil at AC	• at AC-1 maximum	1 000 1/h
• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageACcontrol supply voltage at AC230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 Voperating range factor control supply voltage rated value of magnet coil at ACImagnet coil at AC	• at AC-2 maximum	750 1/h
• at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC	• at AC-3 maximum	750 1/h
Control circuit/ Control AC type of voltage of the control supply voltage AC control supply voltage at AC 230 V • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC Image: Control supply voltage rated value of magnet coil at AC	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage AC control supply voltage at AC 230 V • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC Page 100 Hz	• at AC-4 maximum	250 1/h
control supply voltage at AC 230 V • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC Point AC	Control circuit/ Control	
control supply voltage at AC 230 V • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC Point AC		AC
 at 50 Hz rated value at 60 Hz rated value 230 ∨ 230 ∨ 230 ∨ Operating range factor control supply voltage rated value of magnet coil at AC 		
• at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC		230 V
operating range factor control supply voltage rated value of magnet coil at AC		
magnet coil at AC		
• at 50 Hz 0.8 1.1		
	● at 50 Hz	0.8 1.1

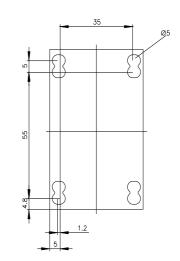
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	0.0 V/
at 50 Hz	0.25
• at 50 Hz	0.25
	0.25
closing delay	0.05
• at AC	9 35 ms
opening delay	
• at AC	4 15 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
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for 3-phase AC motor 	
- at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
acordin or the more mill	

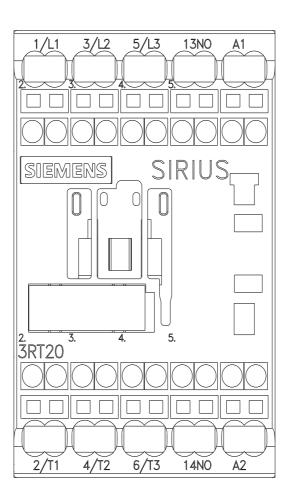
• for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
- with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary 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 height	Yes 70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— 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 mm ²)
solid or stranded	2x (0,5 4 mm ²)
finely stranded with core end processing	2x (0.5 2.5 mm ²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts solid 	0.5 4 mm²
	0.5 4 mm ² 0.5 4 mm ²
 stranded finally stranded with core and processing 	
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm² 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 4 mm ²
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm ²)
— finely stranded without core end processing	2x (0.5 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	X
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29

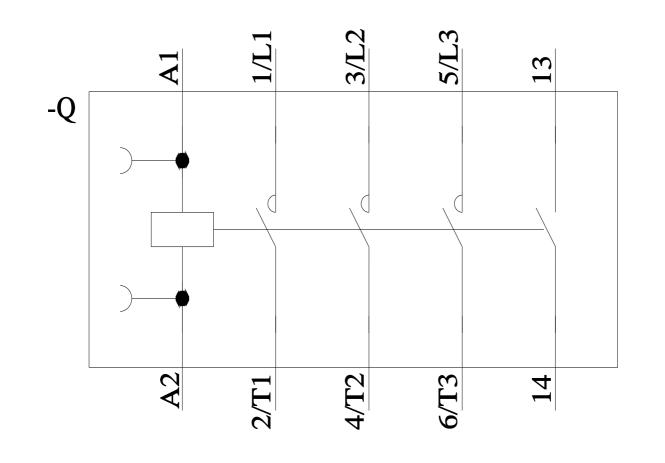
B10 value with high de	where the second in the ON				
	emand rate according to SN	N 31920 1 000	000		
proportion of danger	ous failures				
	d rate according to SN 319				
 with high deman 	nd rate according to SN 319	920 73 %			
failure rate [FIT] with lo	ow demand rate according	to SN 31920 100 F	IT		
T1 value for proof test 61508	interval or service life acco	ording to IEC 20 a			
protection class IP o	n the front according to I	EC 60529 IP20			
touch protection on t	the front according to IEC	60529 finger	-safe, for vertical contac	t from the front	
suitability for use					
 safety-related system 	•	Yes			
ertificates/ approvals					
General Product App	proval				
(SP)		<u>Confirmation</u>		KC	EAC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conform	mity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS			Lloyds Register urs	PRS	RINA
Marine / Shipping	other			Railway	Environment
\odot	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	Environmental Con firmations
RMRS					
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