SIEMENS

Data sheet

3RT2016-2AN22



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

product brand name SIRIUS product designation Power contactor product type designation 3RT2 General technical data Size of contactor size of contactor S00 product extension - • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current - • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W	
product type designation 3RT2 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	
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power loss [W] for rated value of the current • at AC in hot operating state 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	
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 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	
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	

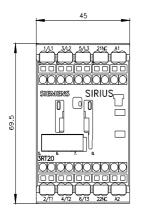
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 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 	

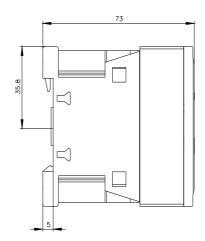
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
at AC-2 at 400 V rated value	4 kW
• 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 690 V rated value	5.5 kW
• at AC-3e	
- at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5 kW
	5 KVV
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	
 up to 230 V for current peak value n=20 rated value 	2 kVA
 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-6a	
 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 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 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
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
	220 V
at 50 Hz rated value at 60 Hz rated value	220 V 220 V
at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of	220 V 220 V

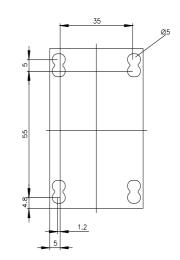
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
● at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• 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 NC 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	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
• 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)
JL/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	

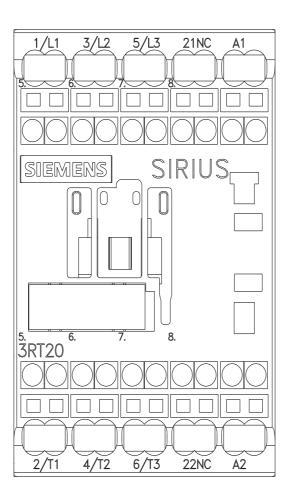
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		aG: 354 (690)/ 100kA) aM· 204 (690)/ 100kA) RS88 354 (415)/ 80kA)			
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http://www.communities.communit					
membra position +100" rotation possitie on vertical mounting surface; can be tilled forward and become and manage surface; can be tilled forward and become and manage surface; can be tilled forward and become and manage surface; can be tilled forward and become and manage on mounting onto 25 mm DIN rail according to DIN EN 60715 store hyside mounting Yes height Yes width 45 mm doth 7 mm required spacing 7 mm - upwards 10 mm - dorwards 10 mm - dorwards 10 mm - dorwards 10 mm - dorwards 10 mm - upwards 10 mm - dorwards 10 mm		gg: 10 A (500 V, 1 KA)			
Index Dackward by <i>i</i> ,		+/-180° rotation possible on vertical mounting surface: can be tilted forward and			
side-by-side mountingYesheight70 mmwidth45 mddepth71 mdrequired spacing71 md	mounting position				
heigh 70 mm width 45 mm doph 73 mm required spacing 73 mm required spacing 70 mm - upwards 10 mm - forwain current circuit spring-loaded terminals totatot circuit spring-loaded terminals totatotatot circuit	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
width 45 mm depth 73 mm depth 73 mm events depending 73 mm - forwards 10 mm - dowwards 10 mm - upwards 10 mm - dowwards 10 mm - dowards 10 mm - dowards 10 mm - dow	 side-by-side mounting 	Yes			
deph 78 m required spacing - - forwards 10 mm - upwards 10 mm - dowmards	height	70 mm			
redured specing - • with side byside mounting - - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - upwards 0 mm - downwards 10 mm - at the side	width	45 mm			
• with side-Syndia mounting - forwards 10 mm - forwards 10 mm - downwards 00 mm - downwards 00 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 50 main - for uain 50 main - for uain 50 main - for uain 50 main	depth	73 mm			
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- downwards0 mm- at the side0 mm- for younds10 mm- forwards10 mm- upwards0 mm- downwards0 mm- downwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- downwards0 mm- upwards10 mm- downwards0 mm- downwards0 mm- downwards0 mm- downwards9 mm- downwards2 k (0.5 4 mm ² - solid cor standed0 S	— forwards	10 mm			
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	— upwards	10 mm			
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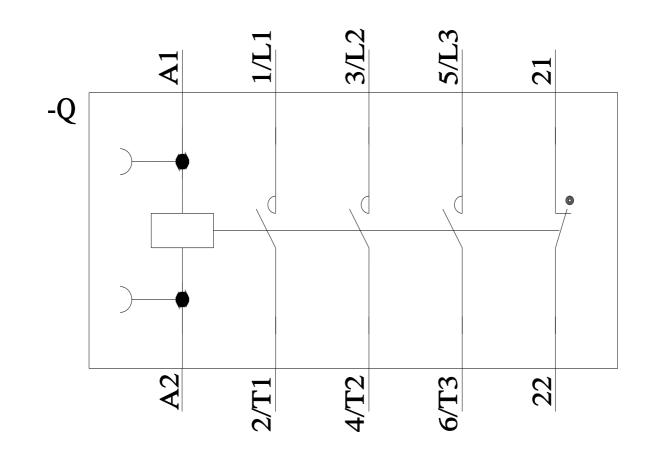
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