SIEMENS

Data sheet

3RT2037-3AN20



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	6.5 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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 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)	10/01/2014
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
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	80 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated	70 A
value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
 at AC-5b up to 400 V rated value at AC-6a 	53.9 A
	56.9 A
— up to 230 V for current peak value n=20 rated value	
— up to 400 V for current peak value n=20 rated value	56.9 A 56.9 A
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	47 A
• at AC-6a	4/ A
 up to 230 V for current peak value n=30 rated value 	38 A
— up to 200 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated	25 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

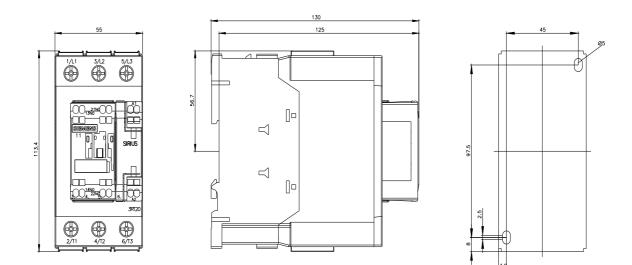
	— at 24 V rated value	35 A		
	— at 60 V rated value	6 A		
	— at 220 V rated value	1 A		
• win 2 current path in series at DC-3 at DC-5 5 - at 24 V rade value 55 Å - at 110 V rade value 25 Å - at 110 V rade value 5 Å - at 440 V rade value 0.27 Å - at 440 V rade value 0.18 Å - at 440 V rade value 0.18 Å - at 460 V rade value 0.18 Å - at 460 V rade value 0.5 Å - at 460 V rade value 55 Å - at 460 V rade value 55 Å - at 460 V rade value 0.38 Å - at 460 V rade value 30 kW - at 470 V rade value 30 kW - at 400 V rade value 37 kW - at 600 V rade value 32 kW <td>— at 440 V rated value</td> <td>0.1 A</td>	— at 440 V rated value	0.1 A		
	— at 600 V rated value	0.06 A		
	 with 2 current paths in series at DC-3 at DC-5 			
- all 10 Vinited value at 440 Vinited value b 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 60 Vinited value 55 A - at 24 Vinited value 55 A - at 24 Vinited value 55 A - at 70 Vinited value 56 A - at 700 Vinited value 57 A - at 400 Vinited value 58 A - at 700 Vinited value 59 A - at 700 Vinited value 50 Vinited value	— at 24 V rated value	55 A		
	— at 60 V rated value	45 A		
	— at 110 V rated value	25 A		
	— at 220 V rated value	5 A		
• with 3 current path in series at DC-3 at DC-5 55 A - at 20 V rated value 55 A - at 110 V rated value 55 A - at 120 V rated value 55 A - at 440 V rated value 66 A - at 420 V rated value 0.35 A operating power 0.35 A - at 600 V rated value 0.35 A operating power 0.15 KW - at 230 V rated value 30 KW - at 230 V rated value 30 KW - at 500 V rated value 30 KW - at 500 V rated value 30 KW - at 500 V rated value 37 KW - at 600 V rated value 30 KW - at 500 V rated value 30 kW - at 500 V rated value 30 kW - at 600 V rated value 30 kW opoperating poperator 30 kW <tr< td=""><td>— at 440 V rated value</td><td>0.27 A</td></tr<>	— at 440 V rated value	0.27 A		
	— at 600 V rated value	0.16 A		
	 with 3 current paths in series at DC-3 at DC-5 			
	— at 24 V rated value	55 A		
	— at 60 V rated value	55 A		
	— at 110 V rated value	55 A		
	— at 220 V rated value	25 A		
operating power at AC-2 at 400 V rated value 30 kW • at AC-3	— at 440 V rated value	0.6 A		
	— at 600 V rated value	0.35 A		
	operating power			
		30 kW		
	• at AC-3			
at 400 V rated value30 kW at 500 V rated value37 kW at 230 V rated value37 kW at 230 V rated value15. kW at 400 V rated value30 kW at 630 V rated value30 kW at 630 V rated value37 kW at 630 V rated value20 kWoperating power for approx. 20000 operating cycles at AC at 640 V rated value20 kWoperating apparent power at AC-6820 kW operating apparent power at AC-6850 kW op to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=30 rated value36 k kVA up to 200 V for current peak value n=30 rated value26 kVA up to 200 V for current peak value n=30 rated value28 kVA up to 6800 V for current peak value n=30 rated value28 kVA up to 6800 V for current peak value n=30 rated value28 kVA op to 6800 V for current peak value n=30 rated value28 kVA up to 6800 V for current peak value n=30 rated value28 kVA up to 6800 V for current peak value n=30 rated value28 kVA up to 6800 V for current peak value n=30 rated value28 kVA up to 6800 V for current peak value n=30 rated value28 kVA <t< td=""><td>— at 230 V rated value</td><td>18.5 kW</td></t<>	— at 230 V rated value	18.5 kW		
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	• at AC-3e			
	— at 230 V rated value	18.5 kW		
	— at 400 V rated value	30 kW		
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• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	 up to 400 V for current peak value n=30 rated value 	26.2 kVA		
short-time withstand current in cold operating state up to 40 °C1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	 up to 500 V for current peak value n=30 rated value 	32.8 kVA		
40 °C• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 e maximum700 1/h• at AC-4 maximum200 1/h	 up to 690 V for current peak value n=30 rated value 	45.3 kVA		
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• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		272 A; Use minimum cross-section acc. to AC-1 rated value		
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• at AC-2 maximum 400 1/h • at AC-3 maximum 700 1/h • at AC-3e maximum 700 1/h • at AC-4 maximum 200 1/h				
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Control circuit/ Control		200 1/h		
	Control circuit/ Control			

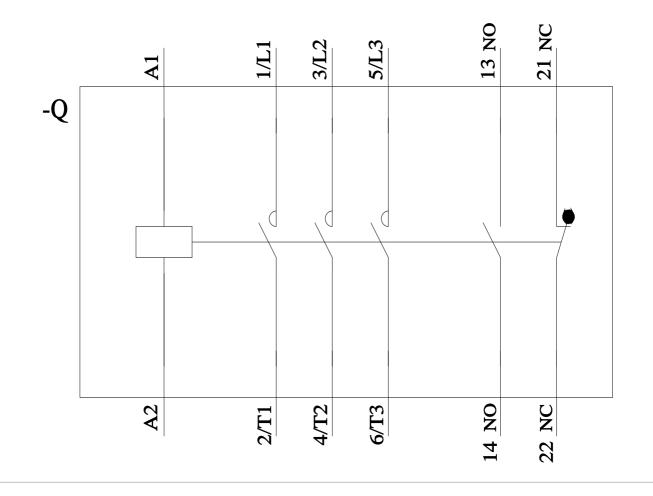
AC
220 V
220 V
0.8 1.1
0.85 1.1
210 VA
188 VA
0.69
0.65
17.2 VA
16.5 VA
0.36
0.39
10 80 ms
10 18 ms
10 20 ms
Standard A1 - A2
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— at 230 V rated value	10 hp			
• for 3-phase AC motor				
— at 200/208 V rated value	20 hp			
- at 220/230 V rated value	20 hp			
— at 460/480 V rated value	50 hp 50 hp			
— at 575/600 V rated value				
contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)			
 — with type of assignment 2 required 	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (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	114 mm			
	55 mm			
width don'th				
depth	130 mm			
required spacing				
with side-by-side mounting	40			
— 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	screw-type 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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
 finely stranded with core end processing 	$2x (1 35 mm^2), 1x (1 35 mm^2)$ $2x (1 25 mm^2), 1x (1 35 mm^2)$			
connectable conductor cross-section for main contacts				
finely stranded with core end processing	1 35 mm²			
connectable conductor cross-section for auxiliary contacts	$0.5 - 2.5 \text{ mm}^2$			
solid or stranded	0.5 2.5 mm ²			
finely stranded with core end processing	0.5 1.5 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 2.5 mm ²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm²)			
 for AWG cables for auxiliary contacts 	2x (20 14)			
AWG number as coded connectable conductor cross				
section				

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product function • minime contact according to IEC 80947-4-1 Yes • possively drive operation according to IEC 80947-5-1 No • autability for use safety-related switching OFF Yes • By date with hydremand rate according to SN 31920 100 000 proportion of dangerous failures 40 % • with hydremand rate according to SN 31920 100 000 reportion of dangerous failures 40 % • with hydremand rate according to SN 31920 100 FT • Ty value for product let interval or second ling to SN 31920 100 FT • Ty value for product let interval or second ling to SN 31920 100 FT • Ty value for product let interval or second ling to SN 31920 100 FT • Ty value for product let interval or second ling to SN 31920 100 FT • Ty value for product let interval or second ling to SN 31920 100 FT • Ty value for product Approval Excent Excent Cool Statisty Statisty of Ma Declaration of Conformity Test Confilicates EMC Parctional Statisty Excent Excent Statisty Statisty Marine / Shipping other Railway Dangerous Good Environme Instatisty Marine / Shipping other Confirmation Yes instatisty Environme Instatisty Marine / Shipping other			14	20	lacis	
• minor contact according to EC 60947-61 Yes • properties of descriptions according to SN 31920 1000000 • With Middemand rate according to SN 31920 1000000 • with Middemand rate according to SN 31920 40 % • with Middemand rate according to SN 31920 40 % • with Middemand rate according to SN 31920 100 000 • with Middemand rate according to SN 31920 73 % Fallwrate rate [FT] with low demand rate according to SN 31920 100 FTT T value of proporties inference or life according to EC 60529 100 FTT T value of proporties inference or life according to EC 60529 100 FTT T value of proporties inference or life according to EC 60529 100 FTT T value of proporties inference or life according to EC 60529 100 FTT T value of proporties inference or life according to EC 60529 100 FTT T value of proporties inference or life according to EC 60529 100 FTT ENCC Foreitonal Settyles Settyles ENCC Foreitonal Settyles Settyles ENC Foreitonal Settyles Settyles ENC Foreitonal Settyles Settyles ENC Foreitonal Settyles Settyles ENC Foreitonal Settyles Settyles Inference Settyles Settyles ENC			_	_		
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audability for use safety-related switching OFF 0 0000 000 000 000 000 000 000 000					-	
B10 due with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures 40 %. • with low demand rate according to SN 31920 73 % • with low demand rate according to SN 31920 73 % • With low demand rate according to SN 31920 73 % Fill brait rate [F1] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection on the front according to IEC 68529 1920 protection according to				C 60947-5-1 No		
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