SIEMENS

Data sheet

3RT2037-3AL20



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 230 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 	

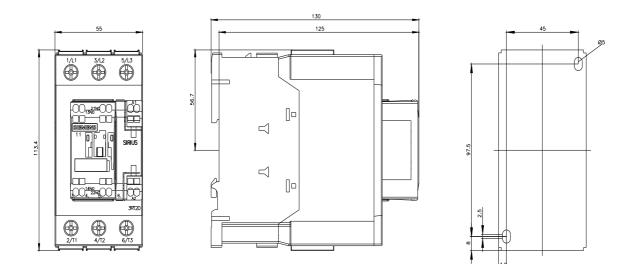
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• win 2 current path in series at DC-3 at DC-5 5 - at 24 V rade value 55 Å - at 110 V rade value 25 Å - at 110 V rade value 5 Å - at 440 V rade value 0.27 Å - at 440 V rade value 0.18 Å - at 440 V rade value 0.18 Å - at 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 500 V for current peak value n=20 rated value 49.2 kVA • up to 690 V for current peak value n=20 rated value 56.1 kVA operating apparent power at AC-6a 15.1 kVA • up to 230 V for current peak value n=30 rated value 26.2 kVA • up to 500 V for current peak value n=30 rated value 26.2 kVA • up to 500 V for current peak value n=30 rated value 26.2 kVA • up to 500 V for current peak value n=30 rated value 25.3 kVA • up to 500 V for current peak value n=30 rated value 45.3 kVA • up to 500 V for current peak value n=30 rated value 45.3 kVA • up to 500 V for current peak value n=30 rated value 45.3 kVA • up to 500 V for current maximum 1 055 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 520 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 236 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 S switching at zero current maximum 272 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 272 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 272 A; Use minimum cross-section acc. to AC-1 rated value <td> up to 230 V for current peak value n=20 rated value </td> <td>22.6 kVA</td>	 up to 230 V for current peak value n=20 rated value 	22.6 kVA
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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
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• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• 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-3 maximum200 1/h	-	
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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		
• at AC-3 maximum 700 1/h • at AC-3e maximum 700 1/h • at AC-4 maximum 200 1/h		
• at AC-3e maximum 700 1/h • at AC-4 maximum 200 1/h		
• at AC-4 maximum 200 1/h		
Control circuit/ Control		200 1/h
	Control circuit/ Control	

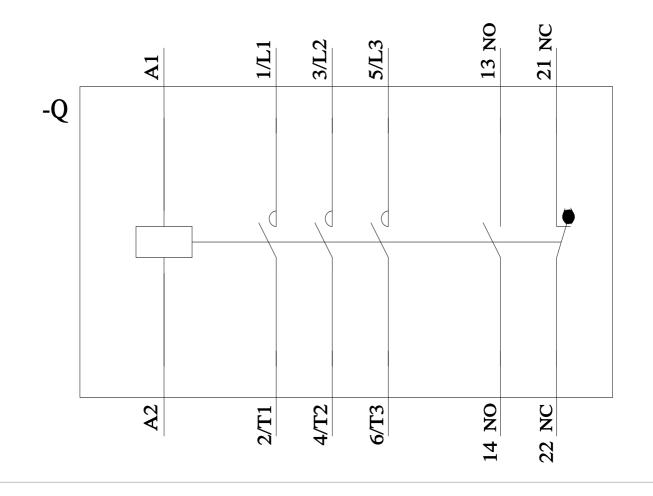
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
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	10.4
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	10 A
 at 48 V rated value 	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
at 110 V rated valueat 125 V rated value	1 A 0.9 A
 at 110 V rated value at 125 V rated value at 220 V rated value 	1 A 0.9 A 0.3 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	1 A 0.9 A 0.3 A 0.1 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts	1 A 0.9 A 0.3 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	1 A 0.9 A 0.3 A 0.1 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts	1 A 0.9 A 0.3 A 0.1 A
at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings	1 A 0.9 A 0.3 A 0.1 A
at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 	1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A
at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value 	1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A

— 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
— at 575/600 V rated value	50 hp
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 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)
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	

• for auxiliary contacts 2014 Safety related data product function • mirror contact according to IEC 60947-4-1 • 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 • with high demand rate according to SN 31920 1 000 FIT T1 value for proof test interval or service life according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection on the front according to IEC 60529 Protection on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Protection class IP on the front according to IEC 60529 Proteclas	- for main contact	to		40 4		
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		according to IEC 60047.4.4		Vee		
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