SIEMENS

Data sheet

3RT2037-1AP00



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz 3-pole, size S2 screw terminals

product brand name SIRIUS product designation Power contactor orderat technical data Size of contactor size of contactor SZ product stansion No • function module for communication No • auxiliary switch Yes • 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 16 W • of auxiliary circuit with degree of pollution 3 rated value 600 V • of main circuit with degree of pollution 3 rated value 600 V • of main circuit rated value 6 k/V • of main circuit vith degree of pollution 3 rated value 600 V • of main circuit vith degree of pollution 3 rated value 600 V • of main circuit vith degree of pollution 3 rated value 6 k/V • of main circuit vith degree of pollution 3 rated value 6 k/V • of main circuit vith degree of pollution 3 rated value 6 k/V • of main circuit vith advalue 11.8g / 5 ms, 7.4g / 10 ms shock resistance at rectangular impulse 10 000 000 • at AC 18.5g / 5 ms, 1	4/13 4/13			
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relative humidity at 55 °C according to IEC 60068-2-30 95 %	 during storage 			
maximum	relative humidity minimum	10 %		
Main circuit		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 	80 A
rated value	
 at AC-1 up to 690 V at ambient temperature 40 °C 	80 A
rated value	00 A
— up to 690 V at ambient temperature 60 °C	70 A
rated value	1011
• 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 	53.9 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated	56.9 A
value	
 — up to 400 V for current peak value n=20 rated value 	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated 	38 A
value	00 A
— up to 400 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 value	25 mm²
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 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 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 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 220 V rated value	1 A
— 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	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— 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 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	0.0077
• at AC-2 at 400 V rated value	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	14.7 kW
 at 690 V rated value 	20 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	22.6 kVA
 up to 400 V for current peak value n=20 rated value 	39.4 kVA
 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	
• up to 230 V for current peak value n=30 rated value	15.1 kVA
• up to 400 V for current peak value n=30 rated value	26.2 kVA
• up to 500 V for current peak value n=30 rated value	32.8 kVA
• up to 690 V for current peak value n=30 rated value	45.3 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	336 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
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
 at AC-1 maximum 	800 1/h
• 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
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	222.14
• at 50 Hz rated value	230 V
operating range factor control supply voltage rated	

operating range factor control supply voltage rated

value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	400.1/4
• at 50 Hz	190 VA
inductive power factor with closing power of the coil	0.70
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
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	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	
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	
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	65 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	5 hz
- at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	20 hp
- at 200/208 V rated value	20 hp
- at 220/230 V rated value	20 hp
— at 460/480 V rated value — at 575/600 V rated value	50 hp
	50 hp A600 / P600
contact rating of auxiliary contacts according to UL	
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	-C. 250 A (COO)/ 400 LA) -NA 400 A (COO)/ 400 LA) DOOD 000 A
 — 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)
	(T) 00 (A)

— 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
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	114 mm
width	55 mm
depth	130 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	40
— forwards	10 mm 10 mm
— upwards — downwards	10 mm
— at the side	6 mm
	0 11111
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
 at contactor for auxiliary contacts of magnet coil 	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections	Sciew-type terminals
for main contacts	
- solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
connectable conductor cross-section for main contacts	
 finely stranded with core end processing 	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm ²
finely stranded with core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 1
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947- 5-1 	No
B10 value with high demand rate according to SN 31920 proportion of dangerous failures	1 000 000
• with low demand rate according to SN 31920	40 %
 with high demand rate according to SN 31920 	73 %

failure rate [FIT] with low demand rate according to SN		100 FIT				
31920 T1 value for proof test interval or service life according to IEC 61508		20 у				
protection class IP on the front according to IEC 60529		IP20				
suitability for use	touch protection on the front according to IEC 60529 suitability for use		finger-safe, for vertical contact from the front			
safety-related s Certificates/ approval	-		Yes	_	_	_
General Product Ap						EMC
(S) M		<u>Confirmatic</u>	<u>on</u>	<u>KC</u>	EHC	RCM
Functional Safety/Safety of Machinery	Declaration of Con	formity		Test Certificates		Marine / Shipping
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA		<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping						
BUREAU VERITAS		Lloyds Register us		PRS	RINA	RMRS
other		Railway		Dangerous Good		
<u>Confirmation</u>	<u>Confirmation</u>	Vibration and S	<u>Shock</u>	<u>Transport Informa-</u> tion		
Further information	wnloadcenter (Catalo	gs, Brochures,.)			
https://www.siemens.						

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AP00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

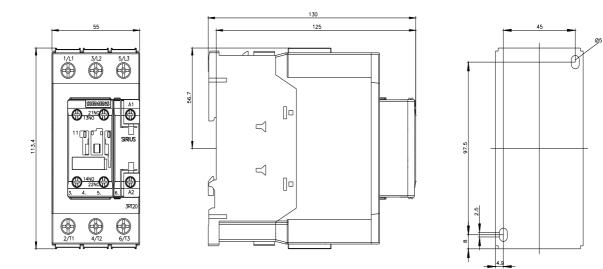
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AP00

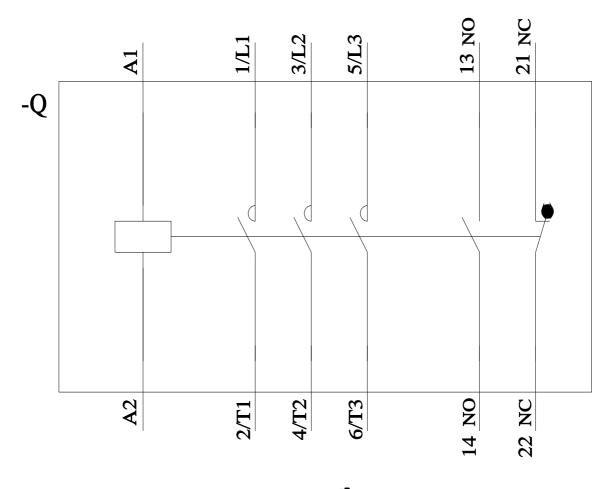
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1AP00&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AP00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AP00&objecttype=14&gridview=view1





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