SIEMENS

Data sheet

3RT2337-1AP00



contactor AC-1, 110 A, 400 V / 40 $^\circ$ C, 4-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

6/13 E/14				
product brand name	SIRIUS			
product designation	Contactor			
product type designation	3RT23			
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 	38.8 W			
 at AC in hot operating state per pole 	9.7 W			
insulation voltage				
• of main circuit with degree of pollution 3 rated value	690 V			
 of the auxiliary and control 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			
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 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	-40 +70 °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	4			
number of NO contacts for main contacts	4			
operational current				
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	110 A			

• at AC-1				
— up to 690 V at ambient temperature 40 °C rated	110 A			
value	TIO A			
— up to 690 V at ambient temperature 60 °C rated	95 A			
value				
• at AC-3	20 A			
— at 400 V rated value	38 A			
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm²			
short-time withstand current in cold operating state up to 40 $^\circ\text{C}$				
 limited to 1 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	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	700 1/h			
Control circuit/ Control				
type of voltage	AC			
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 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			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	190 VA			
inductive power factor with closing power of the coil				
• 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			
attachable	2			
instantaneous contact	1			
number of NO contacts for auxiliary contacts	1			
attachable	2			
	1			
instantaneous 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				
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 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				
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)				
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)				
UL/CSA ratings					
contact rating of auxiliary contacts according to UL	A600 / P600				
Short-circuit protection					
product function short circuit protection	No				
design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of coordination 1 required 	gG: 160 A (690 V, 100 kA)				
- with type of assignment 2 required	gR: 80 A (690 V, 100 kA)				
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (690 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				
width	75 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					
— 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 	screw-type terminals				
 at contactor for auxiliary contacts 	Screw-type terminals				
of magnet coil	Screw-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 25 mm ²), 1x (1 35 mm ²)				
connectable conductor cross-section for main contacts					
solid or stranded	1 50 mm²				
 finely stranded with core end processing 	1 35 mm ²				
connectable conductor cross-section for auxiliary contacts					
solid or stranded	0.5 2.5 mm²				
	0.5 2.5 mm ²				
 finely stranded with core end processing 					
 finely stranded with core end processing finely stranded without core end processing 					
finely stranded with core end processing inely stranded without core end processing type of connectable conductor cross-sections	0.5 2.5 mm ²				

— solid			2x (0.5	1.5 mm²), 2x (0.75	. 2.5 mm²)			
— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)					
 finely stranded with core end processing 			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)					
 for AWG cables for auxiliary contacts 			2x (20 16), 2x (18 14)					
AWG number as code section	ed connectable conducto	r cross						
 for main contacts 	for main contacts			18 1				
 for auxiliary cont 	acts	cts			20 14			
Safety related data								
product function								
 mirror contact ac 	ccording to IEC 60947-4-1		Yes					
 positively driven 	operation according to IEC	60947-5-1	No					
T1 value for proof test i 61508	interval or service life acco	rding to IEC	20 a					
protection class IP or	n the front according to I	EC 60529	IP20					
touch protection on the	he front according to IEC	60529	finger-s	afe, for vertical contact	from the front			
Communication/ Protoc	col							
product function bus	communication		No					
Certificates/ approvals								
General Product App	roval							
(SP)	CCC			Ű		EHL		
EMC	Safety/Safety of Ma- chinery	Declaration of	Conform		Test Certificates			
RCM	Type Examination Cer- tificate	CE EG-Konf.		UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>		
Marine / Shipping								
ABS	B U R E A U VERITAS			Lloyd's Register uts	PRS	RINA		
Marine / Shipping	other	Railway		Dangerous Good	Environment			
KMRS RMRS	<u>Confirmation</u>	Vibration and S	hock	Transport Information	Environmental Con- firmations			

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.sig om/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2337-1AP00 Cax online generator nation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2337-1AP00 http://supp autor Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AP00

 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

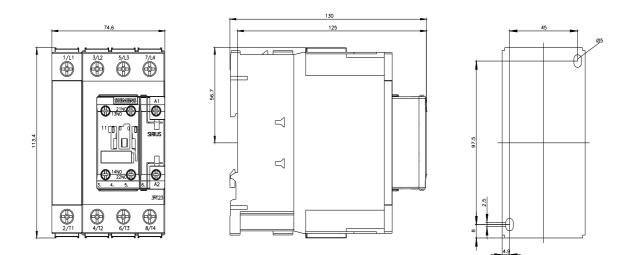
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2337-1AP00&lang=en

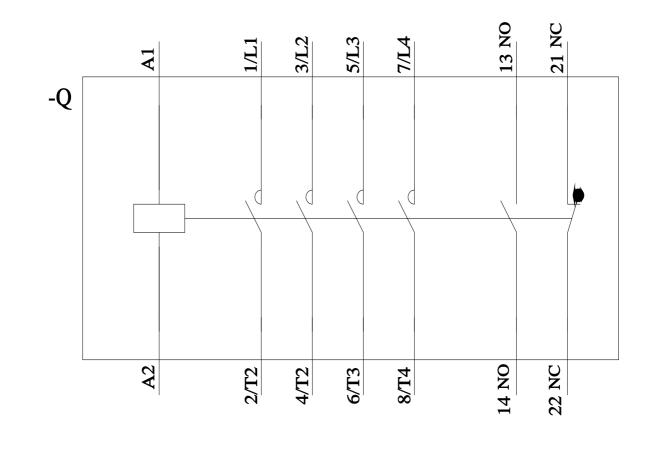
 Characteristic: Tripping characteristics, I²t, Let-through current

 https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AP00/char

 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2337-1AP00&objecttype=14&gridview=view1





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