SIEMENS

Data sheet 3RT2337-1AP00

Contactor, 4 NO, AC-1: 110 A 230 V AC, 50 Hz, 4-pole, 4 NO, Size S2, Screw terminal 1 NO + 1 NC integrated



Product brand name	SIRIUS
Product designation	Contactor
Product type designation	3RT23

g / 5 ms, 7.4g / 10 ms
g / 5 ms, 11.6g / 10 ms
9

of contactor typical	10 000 000
 of the contactor with added auxiliary switch block typical 	100 000 000
Reference code acc. to DIN EN 81346-2	Q

Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Relative humidity	
during operation	95 %

Main circuit	
Number of poles for main current circuit	4
Number of NO contacts for main contacts	4
Operating voltage	
• at AC	
— at 50 Hz rated value	690 V
— at 60 Hz rated value	690 V
Operating 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 value 	110 A
 up to 690 V at ambient temperature 60 °C rated value 	95 A
• at AC-3	
— at 400 V rated value	38 A
Minimum cross-section in main circuit	
• at maximum AC-1 rated value	35 mm²
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 V·A

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 V·A
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
• instantaneous contact	1
Operating current at AC-12	
• maximum	10 A
Operating 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
Operating 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
Operating 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
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Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of coordination 1 required
 - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

gG: 160 A (690 V, 100 kA)

gR: 80 A (690 V, 100 kA)

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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715

Yes

130 mm

10 mm

10 mm

10 mm

0 mm

10 mm

10 mm

6 mm

10 mm

10 mm

Side-by-side mounting

Height	114 mm
Width	75 mm

Required spacing

Depth

- with side-by-side mounting
 - forwards
 - upwards
 - downwards
 - at the side
- for grounded parts
 - forwards
 - upwards
 - at the side
 - downwards
- for live parts
 - forwards
 - $-- \, \mathsf{upwards}$
 - downwardsat the side

10 mm 6 mm

Connections/ Terminals

Type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	0 /4 05 3 4 /4 50 3
— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
Connectable conductor cross-section for main contacts	
• single or multi-stranded	1 50 mm²
 finely stranded with core end processing 	1 35 mm²
Connectable conductor cross-section for auxiliary contacts	
• single or multi-stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.5 1,5mm²), 2x (0.75 2.5 mm²)
— single or multi-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)
at AWG conductors 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 acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5- 	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Communication/ Protocol	
Product function Bus communication	No
Certificates/ approvals	

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination
Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other



LRS









Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2337-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2337-1AP00

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

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

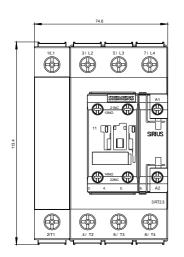
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2337-1AP00&lang=en

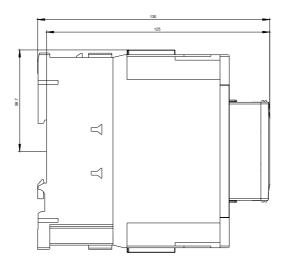
Characteristic: Tripping characteristics, I2t, Let-through current

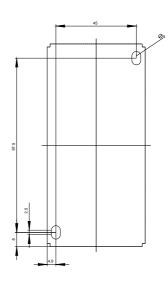
https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AP00/char

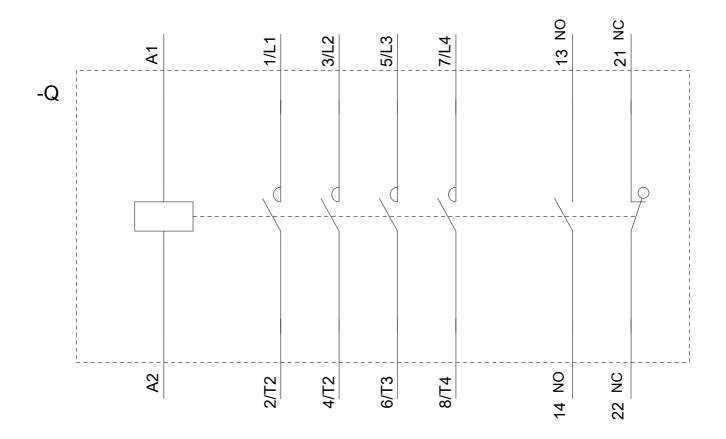
Further characteristics (e.g. electrical endurance, switching frequency)

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









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