SIEMENS

Data sheet 3RT2337-1AB00



Contactor, AC-1, 110 A/400 V/40 $^{\circ}$ C, S2, 4-pole, 24 V AC/50 Hz, 1 NO+1 NC, screw terminal

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	
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 (switching cycles)		
 of contactor typical 	10 000 000	
of the contactor with added auxiliary switch block typical	100 000 000	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	01.10.2014 00:00:00	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
 ambient temperature during operation 	-40 +70 °C	
 ambient temperature during storage 	-55 +80 °C	
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	
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 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 mm ²
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
_	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10's switching at zero current maximum Ilmited to 30's switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
limited to 50 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	Ose minimum cross-section acc. to Ao-1 rated value
• at AC	5 000 1/h
operating frequency at AC-1 maximum	700 1/h
Control circuit/ Control	Too mil
type of voltage	AC
type of voltage of the control supply voltage	AC
• control supply voltage at AC at 50 Hz rated value	24 V
operating range factor control supply voltage rated	СТ V
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	0.07
• at 50 Hz	0.37
closing delay • at AC	10 80 ms
opening delay	10 00 1115
• 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
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	40.0
at 24 V rated value at 48 V rated value	10 A 6 A
at 48 V rated valueat 60 V rated value	6 A
at 110 V rated value at 110 V rated value	3 A
at 110 V rated value at 125 V rated value	2 A
at 123 V rated value at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
opoliulional outroite at DO 10	

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• 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 	gG: 10 A (690 V, 1 kA)	
required		
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 standard mounting 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	
type of connectable conductor cross-sections	Solon type terminale	
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)	
art AWG cables for main contacts		
connectable conductor cross-section for main	2x (18 2), 1x (18 1)	
contacts		
solid or stranded	1 50 mm²	
finely stranded with core end processing	1 35 mm²	
connectable conductor cross-section for auxiliary		
contacts		

 solid or 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 1.5 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)	
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	
 AWG number as coded connectable conductor cross section 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 60947-5-1 	No	
T1 value for proof test interval or service life acc. to IEC 61508	20 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		
General Product Approval		EMC







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Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test Certificates/Test Report Special Test Certificate





Confirmation

Marine / Shipping

other











Further information

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=3RT2337-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2337-1AB00

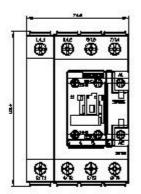
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

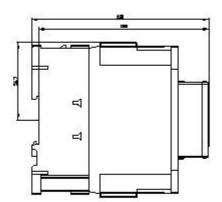
https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AB00

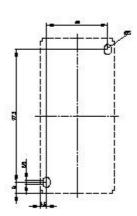
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

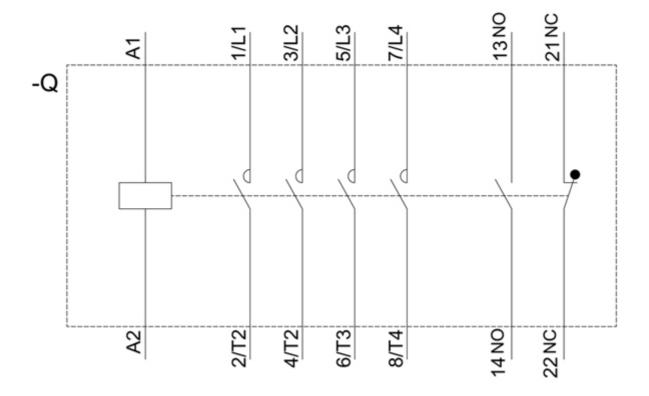
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2337-1AB00\&lang=en}}$

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AB00/char









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