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

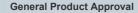
product brand name	SIRIUS		
product designation	Contactor		
product type designation	3RT23		
General technical data			
size of contactor	S2		
product extension			
 function module for communication 	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	38.8 W		
 at AC in hot operating state per pole 	9.7 W		
type of calculation of power loss depending on pole	quadratic		
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		
Weight	1.147 kg		
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 %		
Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
Global Warming Potential [CO2 eq] total	302 kg		
Global Warming Potential [CO2 eq] during manufacturing	4.83 kg		

Clobal Warming Potential ICC2 and during anarotics	207 kg
Global Warming Potential [CO2 eq] during operation	297 kg
Global Warming Potential [CO2 eq] after end of life	-0.64 kg
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
value	
• at AC-1	440.4
 up to 690 V at ambient temperature 40 °C rated value 	110 A
— up to 690 V at ambient temperature 60 °C rated	95 A
value	
• at AC-3	
— at 400 V rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated	35 mm²
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	5.7.2
at 50 Hz	16 VA
inductive power factor with the holding power of the coil	IV VI
at 50 Hz	0.37
	0.01
closing delay	10 80 mg
• at AC	10 80 ms
opening delay	10 19 mg
• 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	1A
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 115 V rated value	2 A
at 220 V rated value	1A
- dt 220 V Idtod Valuo	

a at 600 V rated value	0.15 A		
at 600 V rated value	U. 15 A		
operational current at DC-13	40.4		
• 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 side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
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 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)		
connectable conductor cross-section for main contacts			
solid or stranded	1 50 mm²		
finely stranded with core end processing	1 35 mm²		
connectable conductor cross-section for auxiliary contacts	55		
solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing	0.5 2.5 mm²		
finely stranded with core end processing finely stranded without core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections	5.5 E.0 Hilli		
type of confidentable 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) • for 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 product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No **Electrical Safety** protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol product function bus communication No

Approvals Certificates









Confirmation



<u>KC</u>

General Product Approval

EMV

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping





LR:S







Confirmation

other

Railway

Dangerous goods

Environment

Special Test Certificate Transport Information



Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/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

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

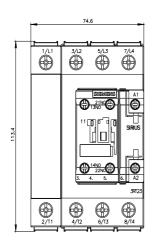
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

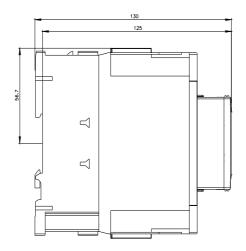
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2337-1AP00\&lang=enderself.} \\$

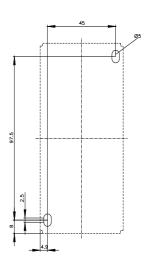
Characteristic: Tripping characteristics, I²t, Let-through current

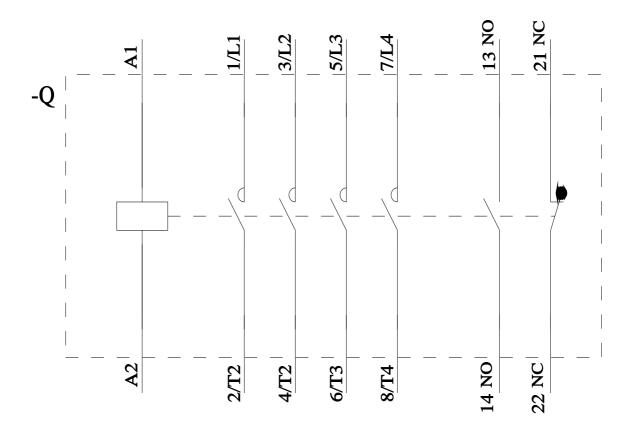
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Further characteristics (e.g. electrical endurance, switching frequency)









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