SIEMENS

Data sheet 3RT2337-1AB00

Figure similar

4NO CONTACTOR,AC1:110A 24V AC 50HZ, 4-POLE, 4NO, SIZE S2, SCREW TERMINAL 1NO+1NC INTEGRATED

product brand name		SIRIUS
Product designation		3RT2 contactor

General technical data:		
Insulation voltage		
• Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
• of the contactor typical		10 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical		5 000 000
• of the contactor with added auxiliary switch block typical		10 000 000
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

Main circuit:		
Number of poles for main current circuit		4
Number of NC contacts for main contacts		0
Number of NO contacts for main contacts		4
Operating voltage		
• at AC-3 Rated value maximum	V	690

Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	110
— up to 690 V at ambient temperature 40 °C Rated value	A	110
— up to 690 V at ambient temperature 60 °C Rated value	A	95
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	A	95
— at 110 V Rated value	A	4.5
— at 220 V Rated value	A	1
— at 440 V Rated value	A	0.4
• at DC-3 at DC-5		
— at 24 V Rated value	A	20
— at 110 V Rated value	A	2.5
— at 220 V Rated value	A	1
— at 440 V Rated value	A	0.1
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	A	55
— at 110 V Rated value	A	45
— at 220 V Rated value	A	5
— at 440 V Rated value	A	1
• at DC-3 at DC-5		
— at 110 V Rated value	A	25
— at 220 V Rated value	A	5
— at 24 V Rated value	A	55
— at 440 V Rated value	A	0.27
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	A	55
— at 110 V Rated value	A	45
— at 220 V Rated value	A	45
— at 440 V Rated value	A	2.9
• at DC-3 at DC-5		
— at 110 V Rated value	A	45
— at 220 V Rated value	A	25
— at 24 V Rated value	A	55
— at 440 V Rated value	A	0.6
Operating power		

• at AC-1 at 400 V Rated value	kW	72
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	36
— at 230 V Rated value	kW	42
— at 400 V at 60 °C Rated value	kW	63
— at 690 V at 60 °C Rated value	kW	108
— at 690 V Rated value	kW	125
Operating frequency		
• at AC-3 maximum	1/h	500

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
• at 50 Hz Rated value	V	24
Operating range factor control supply voltage rated value of the magnet coil with AC		
• at 50 Hz		0.8 ... 1.1

Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		
— instantaneous contact		1
Number of NO contacts		
• for auxiliary contacts		
— instantaneous contact		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
• at 230 V Rated value	A	10
• at 400 V Rated value	A	3
• at 690 V Rated value	A	1
Operating current		
• at DC-12 at 125 V Rated value	A	2
• at DC-12 at 220 V Rated value	A	1
• at DC-12 at 600 V Rated value	A	0.15
• at DC-13 at 125 V Rated value	A	0.9
• at DC-13 at 220 V Rated value	A	0.3
• at DC-13 at 600 V Rated value	A	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	A	6
— at 110 V Rated value	A	3
• at DC-13		

— at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	A	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	27
• at 600 V Rated value	A	27
yielded mechanical performance [hp]		
• for three-phase AC motor at 200/208 V Rated value	metric hp	7.5
• for three-phase AC motor at 220/230 V Rated value	metric hp	10
• for three-phase AC motor at 460/480 V Rated value	metric hp	20
• for three-phase AC motor at 575/600 V Rated value	metric hp	25
Contact rating of the auxiliary contacts acc. to UL		A600 / P600

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the main circuit		
— with type of assignment 1 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
— with type of assignment 2 required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
• for short-circuit protection of the auxiliary switch required		fuse gL/gG: 10 A

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 50022
• Side-by-side mounting		Yes
Height	mm	113.4
Width	mm	75
Depth	mm	130
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0

• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	6
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	6

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-section		
• for main contacts		
— 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)
• for AWG conductors for main contacts		2x (18 ... 2), 1x (18 ... 1)
• for auxiliary contacts		
— 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)
• for AWG conductors for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	190

Safety related data:

Proportion of dangerous failures		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Product function Mirror contact acc. to IEC 60947-4-1		Yes
Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529

Mechanical data:

Size of contactor		S2

Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		

• during operation	°C	-40 ... +70
• during storage	°C	-55 ... +80

Certificates/ approvals:

General Product Approval			other
CSA		UL	Environmental Confirmations

Further information

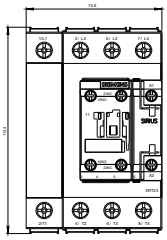
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

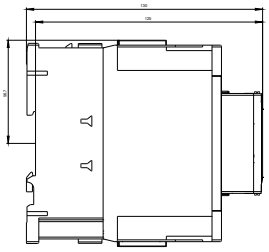
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

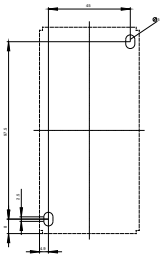
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT23371AB00

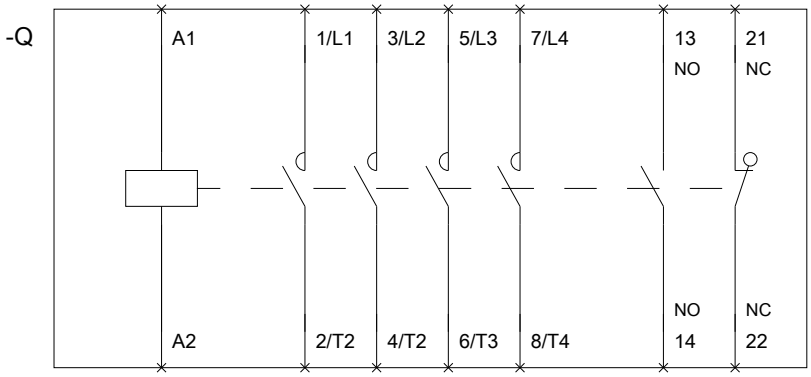
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RT23371AB00/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT23371AB00&lang=en









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