SIEMENS

Data sheet 3RT2337-1NP30



4NO CONTACTOR,AC1:110A 175-280V AC/DC,VARISTOR, 4-POLE, 4NO, SIZE S2, SCREW TERMINAL 1NO+1NC INTEGRATED

Figure similar

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 	Α	110
— up to 690 V at ambient temperature 40 °C Rated value	Α	110
— up to 690 V at ambient temperature 60 °C Rated value	Α	95
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	95
— at 110 V Rated value	Α	4.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.4
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.1
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	55
— at 110 V Rated value	Α	45
— at 220 V Rated value	Α	5
— at 440 V Rated value	Α	1
• at DC-3 at DC-5		
— at 110 V Rated value	Α	25
— at 220 V Rated value	Α	5
— at 24 V Rated value	Α	55
— at 440 V Rated value	Α	0.27
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	55
— at 110 V Rated value	Α	45
— at 220 V Rated value	Α	45
— at 440 V Rated value	Α	2.9
• at DC-3 at DC-5		
— at 110 V Rated value	Α	45
— at 220 V Rated value	Α	25
— at 24 V Rated value	Α	55
— at 440 V Rated value	Α	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/DC
Control supply voltage with AC		
• at 50 Hz Rated value	V	175 280
• at 60 Hz Rated value	V	175 280
Control supply voltage for DC		
Rated value	V	175 280
Operating range factor control supply voltage rated value of the magnet coil with AC		
● at 50 Hz		0.8 1.1
● at 60 Hz		0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 1.1
Design of the surge suppressor		with varistor
Closing power of the magnet coil for DC	W	23
Holding power of the magnet coil for DC	W	1
uxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		
 instantaneous contact 		1
Number of NO contacts		
• for auxiliary contacts		
 instantaneous contact 		1
Designed and an aller Annalle and an aller		V

• for auxiliary contacts		
 instantaneous contact 		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
● at 230 V Rated value	Α	10
● at 400 V Rated value	Α	3
• at 690 V Rated value	Α	1
Operating current		
● at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15

• at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
● at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	27
• at 600 V Rated value	Α	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-Great.	
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	40
● at 60 Hz	V·A	40

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 Installation altitude at height above sea level m 2 000 maximum Ambient temperature °C -40 ... +70 during operation °C -55 ... +80 • during storage

Certificates/ approvals:

General Product Approval

other







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

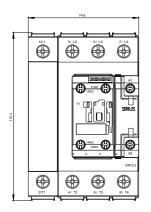
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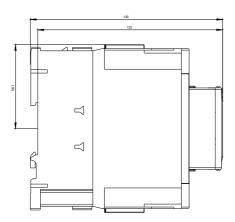
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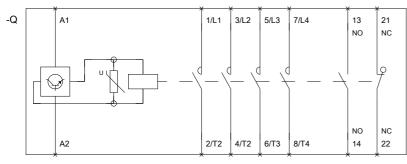
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT23371NP30/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=3RT23371NP30&lang=en







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