SIEMENS

Data sheet 3RT2317-1BB40



4NO CONTACTOR, AC1: 22A DC 24V 4-POLE, 4NO, SZ: S00, SCREW TERMINAL

product brand name	SIRIUS
Product designation	3RT2 contactor
General technical data:	
Insulation voltage	

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 		30 000 000
 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
Thermal short-time current restricted to 10 s	Α	96
Protection class IP		
• on the front		IP20
• of the terminal		IP20
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	22
 up to 690 V at ambient temperature 40 °C Rated value 	Α	22
 up to 690 V at ambient temperature 60 °C Rated value 	Α	20
● at AC-2 at 400 V Rated value	Α	12
• at AC-3		
— at 400 V Rated value	Α	12
• at AC-4 at 400 V Rated value	Α	8.5
Operating current with 1 current path	_	
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.1
— at 220 V Rated value	Α	0.8
— at 440 V Rated value	Α	0.6
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	0.1
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	12
— at 220 V Rated value	Α	1.6
— at 440 V Rated value	Α	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	Α	0.35
— at 24 V Rated value	Α	20
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	20
— at 440 V Rated value	Α	1.3
• at DC-3 at DC-5		
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	1.5
— at 24 V Rated value	Α	20
— at 440 V Rated value	Α	0.2

Operating power		
• at AC-1 at 400 V Rated value	kW	13
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	kW	4
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	7.5
— at 230 V Rated value	kW	7.5
— at 400 V at 60 °C Rated value	kW	13
— at 690 V at 60 °C Rated value	kW	22
• at AC-3		
— at 230 V Rated value	kW	3
— at 400 V Rated value	kW	5.5
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage for DC		
Rated value	V	24
Operating range factor control supply voltage rated		0.8 1.1
value of the magnet coil for DC	\ A /	
Closing power of the magnet coil for DC	W	4
Holding power of the magnet coil for DC	W	4
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
 instantaneous contact 		0
Number of NO contacts		
 for auxiliary contacts 		
 instantaneous contact 		0
Product expansion Auxiliary switch		Yes
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	7.6
• at 600 V Rated value	Α	9
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	0.33
value	hp	

• for three-phase AC motor at 200/208 V Rated value	metric hp	2
• for three-phase AC motor at 220/230 V Rated value	metric hp	3
• for three-phase AC motor at 460/480 V Rated value	metric hp	5
• for three-phase AC motor at 575/600 V Rated value	metric hp	7.5

Short-circuit:

Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A

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	57.5
Width	mm	45
Depth	mm	73
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	0
— at the side	mm	6
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0

— upwards	mm	0
— downwards	mm	0
— 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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12
 for auxiliary contacts 	
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 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), 2x 12

Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
 with high demand rate acc. to SN 31920 	%	73
Failure rate [FIT] with low demand rate acc. to SN	FIT	100
31920		
Product function Mirror contact acc. to IEC 60947-4-1		Yes
• Note		with 3RH29
T1 value for proof test interval or service life acc. to	У	20
IEC 61508		
Protection against electrical shock		finger-safe

Mechanical data:			
Size of contactor		S00	
Ambient conditions:			
	_		
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature			

during operation	°C	-25 +60
during storage	°C	-55 + 80

Certificates/ approvals:

General Product Approval



Declaration of Conformity









Type Examination



Test Certificates

Shipping Approval

Special Test Certificate Type Test
Certificates/Test
Report







other



GL

Shipping Approval











Environmental Confirmations

Confirmation

other



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=3RT23171BB40

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

http://support.automation.siemens.com/WW/view/en/3RT23171BB40/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=3RT23171BB40&lang=en



