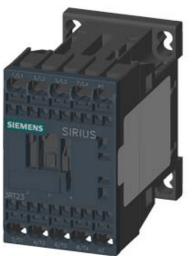
SIEMENS

Data sheet

3RT2317-2AB00



4NO CONTACTOR, AC1: 22A AC 24V 50/60HZ 4-POLE, 4NO, SZ: S00, SPRING-LOADED TERMINAL

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 		30 000 000	
• of the contactor with added electronics-		5 000 000	
compatible auxiliary switch block typical			
 of the contactor with added auxiliary switch 		10 000 000	
block typical			
Thermal short-time current restricted to 10 s	А	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	A	22
— up to 690 V at ambient temperature 40 °C Rated value	А	22
— up to 690 V at ambient temperature 60 °C Rated value	А	20
• at AC-2 at 400 V Rated value	А	12
• at AC-3		
— at 400 V Rated value	А	12
• at AC-4 at 400 V Rated value	А	8.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	2.1
— at 220 V Rated value	А	0.8
— at 440 V Rated value	А	0.6
• at DC-3 at DC-5		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	0.1
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	12
— at 220 V Rated value	А	1.6
— at 440 V Rated value	А	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	А	0.35
— at 24 V Rated value	А	20
Operating current with 3 current paths in series		
● at DC-1		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	20
— at 220 V Rated value	А	20
— at 440 V Rated value	А	1.3
• at DC-3 at DC-5		
— at 110 V Rated value	А	20
— at 220 V Rated value	А	1.5
	~	
— at 24 V Rated value	A	20

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		AC
Control supply voltage with AC		
• at 50 Hz Rated value	V	24
• at 60 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
● at 60 Hz		0.85 1.1
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)
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
	А	7.6
• at 480 V Rated value		
• at 600 V Rated value	A	9
		9 0.33

 for single-phase AC motor at 230 V Rated value 	metric hp	1
 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
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	69.5
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		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (0,5 4 mm²)
— finely stranded with core end processing		2x (0.5 2.5 mm²)
 finely stranded without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 12)
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 4 mm²)
— finely stranded with core end processing		2x (0.5 2.5 mm²)
 finely stranded without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 12)
Apparent pick-up power of the magnet coil with AC		
• at 50 Hz	V·A	37
• at 60 Hz	V·A	43

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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 31920	FIT	100		
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 IEC 61508	У	20		
Protection against electrical shock	-	finger-safe		
Mechanical data:				
Size of contactor		S00		

Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 +60
 during storage 	°C	-55 +80

Certificates/ approvals:

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity	
	CSA	EHC		Type Examination	EG-Konf.	



 Shipping Approval
 other

 Image: Shipping Approval
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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=3RT23172AB00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT23172AB00/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=3RT23172AB00&lang=en

