SIEMENS

Data sheet

3RT2326-1AN20



4NO CONTACTOR, AC1: 40A AC 230V 50/60HZ 4-POLE, 4NO, SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.

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-		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	200	
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	А	40
— up to 690 V at ambient temperature 40 °C Rated value	А	40
— up to 690 V at ambient temperature 60 °C Rated value	A	35
 at AC-2 at 400 V Rated value 	А	17
• at AC-3		
— at 400 V Rated value	А	15.5
• at AC-4 at 400 V Rated value	А	15.5
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	4.5
— at 220 V Rated value	А	1
— at 440 V Rated value	А	0.4
● at DC-3 at DC-5		
— at 24 V Rated value	А	20
— at 110 V Rated value	А	2.5
— at 220 V Rated value	А	1
— at 440 V Rated value	А	0.09
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
— at 220 V Rated value	А	1
— at 440 V Rated value	А	1
• at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 220 V Rated value	А	3
— at 24 V Rated value	А	35
— at 440 V Rated value	А	0.27
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	35
— at 220 V Rated value	А	35
— at 440 V Rated value	А	2.9
● at DC-3 at DC-5		

— at 110 V Rated value	А	35
— at 220 V Rated value	А	10
— at 24 V Rated value	А	35
— at 440 V Rated value	А	0.6
Operating power	-	
• at AC-1 at 400 V Rated value	kW	23
• at AC-2 at 400 V Rated value	kW	9
• at AC-4 at 400 V Rated value	kW	7.5
Operating power	-	
• at AC-1		
— at 230 V at 60 °C Rated value	kW	13
— at 230 V Rated value	kW	23
— at 400 V at 60 °C Rated value	kW	23
• at AC-3		
— at 230 V Rated value	kW	4
— at 400 V Rated value	kW	7.5
Operating frequency	_	
• at AC-3 maximum	1/h	750
Control size it/ Control	_	
Control circuit/ Control: Type of voltage of the control supply voltage	_	AC
Control supply voltage with AC		
• at 50 Hz Rated value	V	220
• at 60 Hz Rated value	V	220
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		
for auxiliary contacts — instantaneous contact		1
Instantaneous contact Number of NO contacts		1
 for auxiliary contacts instantaneous contact 		1
Product expansion Auxiliary switch		' Yes
Operating current at AC-15		
• at 230 V Rated value	А	10
at 200 V Rated value at 400 V Rated value	A	3
at 400 V Rated value at 690 V Rated value	A	1
Operating current		
at DC-12 at 125 V Rated value	А	2
		-

• at DC-12 at 220 V Rated value	А	1
• at DC-12 at 600 V Rated value	А	0.15
• at DC-13 at 125 V Rated value	А	0.9
 at DC-13 at 220 V Rated value 	А	0.3
• at DC-13 at 600 V Rated value	А	0.1
Operating current	-	
● at DC-12		
— at 60 V Rated value	А	6
— at 110 V Rated value	А	3
• at DC-13		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	2
— at 110 V Rated value	А	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	А	14
• at 600 V Rated value	А	17
yielded mechanical performance [hp]	_	
 for single-phase AC motor at 110/120 V Rated 	metric	1
value	hp	-
 for single-phase AC motor at 230 V Rated value 	metric hp	3
 for three-phase AC motor at 200/208 V Rated value 	metric hp	3
 for three-phase AC motor at 220/230 V Rated value 	metric hp	5
 for three-phase AC motor at 460/480 V Rated value 	metric hp	10
 for three-phase AC motor at 575/600 V Rated value 	metric hp	15
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
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:
		63 A
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 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	85
Width	mm	61
Depth	mm	97
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:		

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 2,5 mm²), 2x (2,5 10 mm²)		
— finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
 for AWG conductors for main contacts 		2x (16 12), 2x (14 8)		
 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	81
● at 60 Hz	V·A	79
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
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		SO
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	t Approval			EMC	Functional Safety/Safety of Machinery
	(SA) CSA	EHC		С-тіск	Type Examination
Declaration of Conformity	Test Certificate	9S	Shipping App	proval	
EG-Konf.	Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	BUREAU VERITAS	ĴÅ DNV DNV
Shipping Approv	/al		,		other
GL	Lloyd's Register Lrs	PRS	RINA	RMRS	<u>Confirmation</u>
other					
Environmental Confirmations	VDE				

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=3RT23261AN20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT23261AN20/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=3RT23261AN20&lang=en



