# **SIEMENS**

### Data sheet

## 3RT2326-2AC20



4NO CONTACTOR, AC1: 40A AC 24V 50/60HZ 4-POLE, 4NO, SZ: S0, SPRING-LOADED 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)			
<ul> <li>of the contactor typical</li> </ul>		10 000 000	
<ul> <li>of the contactor with added electronics-</li> </ul>		5 000 000	
compatible auxiliary switch block typical			
<ul> <li>of the contactor with added auxiliary switch</li> </ul>		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
<ul> <li>at AC-2 at 400 V Rated value</li> </ul>	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 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	•	2.
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	_	1
Number of NO contacts		
for auxiliary contacts		
— instantaneous contact		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15	•	10
• at 230 V Rated value	A	10
• at 400 V Rated value	A	3
at 690 V Rated value	A	1
Operating current	•	2
• at DC-12 at 125 V Rated value	A	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]		
<ul> <li>for single-phase AC motor at 110/120 V Rated</li> </ul>	metric	1
value	hp	
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	3
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	3
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	5
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	10
<ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>	metric hp	15
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— 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
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		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
<ul> <li>Side-by-side mounting</li> </ul>		Yes
Height	mm	85
Width	mm	61
Depth	mm	97
Required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
<ul> <li>for grounded parts</li> </ul>		
— 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

( 'onn	actione/	Terminals:
COUL		

Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Type of connectable conductor cross-section	
• for main contacts	
— single or multi-stranded	2x (1 10 mm²)
— finely stranded with core end processing	2x (1 6 mm²)
— finely stranded without core end	2x (1 6 mm²)
processing	
<ul> <li>for AWG conductors for main contacts</li> </ul>	2x (18 8)
<ul> <li>for auxiliary contacts</li> </ul>	
— single or multi-stranded	2x (0,5 2,5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)

— finely stranded without core end		2x (0.5 2.5 mm²)
processing		`````
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 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		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	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
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		S0
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			EMC	Functional Safety/Safety of Machinery
	CSA		EHC	С-тіск	<u>Type Examinatio</u>
Declaration of Conformity	Test Certificates	3	Shipping App	proval	
EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>	Special Test Certificate	ABS	BUREAU VERITAS	C D NV
Shipping Approv	al				other
G L 🛞	Lloyd's Register LRS	PRS	RINA	RMRS	Environmental Confirmations
other					
<u>Confirmation</u>					
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