SIEMENS

Data sheet

3RT2327-1AP00



4NO CONTACTOR, AC1: 50A AC 230V 50HZ 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- 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	А	260
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	50
— up to 690 V at ambient temperature 40 °C Rated value	A	50
— up to 690 V at ambient temperature 60 °C Rated value	A	42
 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	42
— at 440 V Rated value	А	2.9
• at DC-3 at DC-5		

Instantaneous contactA35- at 24 V Rated valueA0.6Operating powerit AC-1 at 400 V Rated valuekW28• at AC-1 at 400 V Rated valuekW9• at AC-1 at 400 V Rated valuekW9• at AC-1 at 400 V Rated valuekW9• at AC-1	— at 110 V Rated value	А	35	
	— at 220 V Rated value	А	10	
Operating power kW 28 • at AC-1 at 400 V Rated value kW 9 • 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 Rated value kW 16 - at 230 V Rated value kW 28 - at 400 V at 60 °C Rated value kW 28 - at 400 V at 60 °C Rated value kW 28 - at 400 V Rated value kW 7.5 Operating frequency n 750 Control circuit/ Control: Type of voltage of the control supply voltage AC Control supply voltage with AC v 230 • at 50 Hz Rated value V 230 Operating range factor control supply voltage rated value V 230 • at 60 Hz 0.8 1.1 0.85 1.1 Auxiliary contacts 1 1 • at 60 Hz 0.8 1.1 0.85 1.1 Auxiliary contacts 1 1 • instantaneous contact 1 1	— at 24 V Rated value	А	35	
• at AC-1 at 400 V Rated value kW 28 • 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 Rated value kW • at AC-1 - at 230 V Rated value kW 16 at 230 V Rated value kW 28 - at 400 V at 60 °C Rated value kW 28 • at AC-3 - at 400 V Rated value kW 28 - at 230 V Rated value kW 28 • at AC-3 - at 400 V Rated value kW 7.5 - at 230 V Rated value kW 7.5 Operating frequency - at 400 V Rated value kW 7.5 - at 400 V Rated value V 230 Control supply voltage of the control supply voltage - AC - at 50 Hz Rated value V 230 Operating range factor control supply voltage rated value V 230 - at 60 Hz - at 60 Hz	— at 440 V Rated value	А	0.6	
eat 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 Rated value • at AC-1 - at 230 V Rated value KW • at AC-3 - at 230 V Rated value KW • at AC-3 - at 230 V Rated value KW • at AC-3 - at 400 V Rated value KW • at AC-3 - at 400 V Rated value KW • at AC-3 - at 400 V Rated value KW • at AC-3 - at 400 V Rated value KW • at AC-3 maximum 1/h 750 Control circuit/ Control:	Operating power	_		
eat AC-4 at 400 V Rated value KW 7.5 Operating power • at AC-1 · · · · · · · · · · · · · · · · · · ·	• at AC-1 at 400 V Rated value	kW	28	
Operating power • at AC-1 - at 230 V Rated value KW - at 230 V Rated value KW - at 230 V Rated value KW - at 400 V at 60 °C Rated value KW - at 400 V Rated value KW - at 230 V Rated value KW - at 230 V Rated value KW - at 230 V Rated value KW - at 400 V Rated value V Control supply voltage with AC - • at 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 Number of NC contacts 1 • for auxiliary contacts 1 - instantaneous contact 1 Product expansion Auxillary switch Yes Operating current at AC-15 1 • at 230 V Rated value A	• at AC-2 at 400 V Rated value	kW	9	
• at AC-1 - at 230 V at 60 °C Rated value KW 16 - at 230 V Rated value KW 28 - at 400 V at 60 °C Rated value KW 28 • at AC-3 KW 28 - at 230 V Rated value KW 28 • at AC-3 KW 28 - at 200 V Rated value KW 4 - at 400 V Rated value KW 4 - at 400 V Rated value KW 4 - at 400 V Rated value KW 7.5 Operating frequency 1/h 750 • at AC-3 maximum 1/h 750 Control circult/ Control:	• at AC-4 at 400 V Rated value	kW	7.5	
at 230 V at 60 °C Rated value KW 16 at 230 V Rated value KW 28 at 400 V at 60 °C Rated value KW 28 at 230 V Rated value KW 28 at 230 V Rated value KW 4 at 400 V Rated value KW 4 at 400 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 230 Operating range factor control supply voltage rated value of the magnet coil with AC 0.8 1.1 0.8 1.1 • at 50 Hz 0.8 1.1 0.85 1.1 Auxiliary contacts	Operating power	_		
- at 230 V Rated value kW 28 - at 400 V at 60 °C Rated value kW 28 • at AC-3 - - at 230 V Rated value kW 4 - at 200 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 0.8 1.1 - • at 60 Hz 0.8 1.1 - Autiery circuit: - - - Number of NC contacts - - - • for auxiliary contacts 1 - - - instantaneous contact 1 1 - Number of NO contacts 1 - - • for auxiliary contacts 1 - - - instantaneous contact 1 1 - • at 230 V Rated value A 3 -	● at AC-1			
	— at 230 V at 60 °C Rated value	kW	16	
• 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 230 Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 0.8 1.1 • at 50 Hz 0 Hz 0.8 1.1 0.85 1.1 Auxiliary circuit: Number of NC contacts 1 0.85 1.1 Number of NC contacts 1 1 Product expansion Auxiliary contacts 1 • instantaneous contact 1 1 Product expansion Auxiliary switch Yes Operating current at AC-15 • • 3 • • at 800 V Rated value A 10 • • • at 600 V Rated value A 1 Operating current • 4	— at 230 V Rated value	kW	28	
at 230 V Rated valueKW4 at 400 V Rated valueKW7.5Operating frequency • at AC-3 maximum1/h750Control circuit/ Control:750Type of voltage of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coll with AC • at 60 Hz0.8 1.1• at 60 Hz0.8 1.1Number of NC contacts • for auxiliary contacts1Number of NO contacts • for auxiliary contacts1Product expansion Auxiliary switchYesOperating current • at 230 V Rated valueA103• at 60 V Rated valueA11Operating current • at 800 V Rated valueA12Operating current • at DC-12 at 125 V Rated valueA230 V Rated valueA11	— at 400 V at 60 °C Rated value	kW	28	
	● at AC-3			
Operating frequency Image: state of the control supply voltage • at AC-3 maximum 1/h 750 Control circuit/ Control: Type of voltage of the control supply voltage AC Control supply voltage with AC • 230 • at 50 Hz Rated value V 230 Operating range factor control supply voltage rated value of the magnet coil with AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 • at 60 Hz 0.85 1.1 Auxiliary circuit: 0.85 1.1 Number of NC contacts 1 • for auxiliary contacts 1 — instantaneous contact 1 Product expansion Auxiliary switch Yes Operating current at AC-15 1 • at 690 V Rated value A 3 • at 690 V Rated value A 1 Operating current A 2	— at 230 V Rated value	kW	4	
• at AC-3 maximum1/h750Control circuit/ Control:Type of voltage of the control supply voltageACControl supply voltage with AC• at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with AC• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Number of NC contacts1• for auxiliary contacts1- instantaneous contact1Product expansion Auxiliary switchYesOperating currentA• at 690 V Rated valueA• at 690 V Rated valueA1AccessionOperating currentA• at 230 V Rated valueA• at 690 V Rated valueA• at Col V Rated valueA• at DC-12 at 125 V Rated value<	— at 400 V Rated value	kW	7.5	
Control circuit/ Control: Type of voltage of the control supply voltage AC Control supply voltage with AC • at 50 Hz Rated value V 230 Operating range factor control supply voltage rated value of the magnet coll with AC • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 0.8 1.1 • at 60 Hz 0.8 1.1 Number of NC contacts 1 – instantaneous contact 1 Number of NO contacts 1 – instantaneous contact 1 Product expansion Auxiliary switch Yes Operating current at AC-15 1 • at 690 V Rated value A • at 690 V Rated value A • at 690 V Rated value A • at 200 V Rated value A	Operating frequency			
Type of voltage of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz0.8 1.1• at 50 Hz • at 60 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Image: Control supply voltageNumber of NC contacts • for auxiliary contacts — instantaneous contact1• for auxiliary contacts — instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-15 • at 230 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at 050 V Rated valueA•	• at AC-3 maximum	1/h	750	
Type of voltage of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz0.8 1.1• at 50 Hz • at 60 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Number of NC contacts • for auxiliary contacts — instantaneous contact1• for auxiliary contacts • for auxiliary contacts — instantaneous contact1Product expansion Auxiliary switch Operating current at AC-15 • at 230 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at 00 C rated valueA• at 00 V Rated valueA• at 00		_		
Control supply voltage with ACV230Operating range factor control supply voltage rated value of the magnet coll with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Image: coll with AC• at 60 Hz1Number of NC contacts • for auxiliary contacts — instantaneous contact1Number of NO contacts • for auxiliary contacts — instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-15 • at 230 V Rated valueA110• at 690 V Rated valueA• at 690 V Rated valueA• at 0C-12 at 125 V Rated valueA22		_	46	
• at 50 Hz Rated valueV230Operating range factor control supply voltage rated value of the magnet coil with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1Auxiliary circuit:Image: contacts• for auxiliary contacts1- instantaneous contact1Number of NO contacts1• for auxiliary contacts1- instantaneous contact1Number of NO contacts1• for auxiliary contacts1- instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-15Image: contact at 230 V Rated value• at 690 V Rated valueA1• at 690 V Rated valueA2		_	AC	
Operating range factor control supply voltage rated value of the magnet coil with AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 60 Hz 0.85 1.1 Auxiliary circuit: Number of NC contacts - instantaneous contact 1 Number of NO contacts 1 - instantaneous contact 1 Number of NO contacts 1 - instantaneous contact 1 Product expansion Auxiliary switch Yes Operating current at AC-15 1 • at 600 V Rated value A 3 • at 600 V Rated value A 1 Operating current A 2		V	230	
value of the magnet coil with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1Auxiliary circuit:Number of NC contacts• for auxiliary contacts1 instantaneous contact1Number of NO contacts1• for auxiliary contacts1 instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-1510• at 400 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at DC-12 at 125 V Rated valueA2		v	250	
• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1Auxiliary circuit:Number of NC contacts• for auxiliary contacts- instantaneous contact1Number of NO contacts• for auxiliary contacts- instantaneous contact1Number of NO contacts• for auxiliary contacts- instantaneous contact1Product expansion Auxiliary switchOperating current at AC-15• at 230 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA2				
Auxiliary circuit: Number of NC contacts • for auxiliary contacts — instantaneous contact 1 Number of NO contacts • for auxiliary 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 • at 230 V Rated value A • at 690 V Rated value A • at 690 V Rated value • at 00 V Rated value • at 00 V Rated value A • at 00 V Rated value • at 00 V Rated value • at 00 V Rated value A • at 00 V Rated value • at 00 V Rated value A <	• at 50 Hz		0.8 1.1	
Number of NC contacts1• for auxiliary contacts1— instantaneous contact1Number of NO contacts1• for auxiliary contacts1— instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-151• at 230 V Rated valueA• at 400 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at DC-12 at 125 V Rated valueA	● at 60 Hz		0.85 1.1	
Number of NC contacts1• for auxiliary contacts1— instantaneous contact1Number of NO contacts1• for auxiliary contacts1— instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-151• at 230 V Rated valueA• at 400 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at DC-12 at 125 V Rated valueA				
• for auxiliary contactsI— instantaneous contact1Number of NO contactsI• for auxiliary contactsI— instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-15I• at 230 V Rated valueA• at 400 V Rated valueA• at 690 V Rated valueA• at C-12 at 125 V Rated valueA• at DC-12 at 125 V Rated valueA		_		
instantaneous contact1Number of NO contacts1• for auxiliary contacts1 instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-151• at 230 V Rated valueA• at 400 V Rated valueA• at 690 V Rated valueA• at 690 V Rated valueA• at DC-12 at 125 V Rated valueA• at DC-12 at 125 V Rated valueA• A2				
Number of NO contacts• for auxiliary contacts instantaneous contact1Product expansion Auxiliary switchOperating current at AC-15• at 230 V Rated valueA10• at 400 V Rated valueA• at 690 V Rated valueA• at C-12 at 125 V Rated valueA2	-			
• for auxiliary contacts1 instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-15-• at 230 V Rated valueA• at 400 V Rated valueA• at 690 V Rated valueA• at C-12 at 125 V Rated valueA• at DC-12 at 125 V Rated valueA		_	1	
instantaneous contact1Product expansion Auxiliary switchYesOperating current at AC-15I• at 230 V Rated valueA10• at 400 V Rated valueA3• at 690 V Rated valueA1Operating currentA2				
Product expansion Auxiliary switch Yes Operating current at AC-15 - • at 230 V Rated value A 10 • at 400 V Rated value A 3 • at 690 V Rated value A 1 Operating current A 2	·			
Operating current at AC-15A10• at 230 V Rated valueA10• at 400 V Rated valueA3• at 690 V Rated valueA1Operating current		_		
• at 230 V Rated valueA10• at 400 V Rated valueA3• at 690 V Rated valueA1Operating currentA2			Yes	
• at 400 V Rated value A 3 • at 690 V Rated value A 1 Operating current				
• at 690 V Rated value A 1 Operating current • at DC-12 at 125 V Rated value A 2				
Operating current A 2				
at DC-12 at 125 V Rated value A 2		A	1	
• at DC-12 at 220 V Rated value A 1	• at DC-12 at 125 V Rated value			
	 at DC-12 at 220 V Rated value 	A	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 value 	metric hp	1
 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 e for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required

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:		

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	77
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 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	t Approval			EMC	Functional Safety/Safety of Machinery
CCC	(SA) CSA		EHC	С-тіск	Type Examination
Declaration of Conformity	Test Certificates		Shipping App	proval	
EG-Konf.	Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	BUREAU VERITAS	ĴŠ DNV DNV
Shipping Approv	/al				other
GL GL	Lloyd's Register LRS	PRS	RINA	RMRS	Environmental Confirmations
other					
Confirmation	VDE				
Further information					
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