SIEMENS

Data sheet

3RT2028-2BB40



CONTACTOR, AC-3, 18.5KW/400V, 1NO+1NC, DC 24V, 3-POLE, SZ S0 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 		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	304	
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		3	
Number of NC contacts for main contacts		0	
Number of NO contacts for main contacts		3	
Operating voltage			

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C	А	50
Rated value		
— up to 690 V at ambient temperature 40 $^\circ C$	А	50
Rated value		
— up to 690 V at ambient temperature 60 °C Rated value	A	42
• at AC-2 at 400 V Rated value	А	38
● at AC-3		
— at 400 V Rated value	А	38
— at 500 V Rated value	А	32
— at 690 V Rated value	А	21
• at AC-4 at 400 V Rated value	А	22
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 600 V Rated value	А	0.25
● 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
— at 600 V Rated value	А	0.06
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	5
— at 440 V Rated value	А	1
— at 600 V Rated value	А	0.8
• 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
— at 600 V Rated value	А	0.16
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 600 V Rated value	А	1.4
• 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
— at 600 V Rated value	А	0.6
Operating power	_	
• at AC-1 at 400 V Rated value	kW	28
• at AC-2 at 400 V Rated value	kW	18.5
• at AC-4 at 400 V Rated value	kW	11
Operating power		
● at AC-1		
— at 230 V at 60 °C Rated value	kW	15.5
— at 230 V Rated value	kW	16
— at 400 V at 60 °C Rated value	kW	27.5
— at 690 V at 60 °C Rated value	kW	47.5
— at 690 V Rated value	kW	48
● at AC-3		
— at 230 V Rated value	kW	11
— at 400 V Rated value	kW	18.5
— at 690 V Rated value	kW	18.5
Operating power for \geq 200000 operating cycles at		
AC-4	1.547	
• at 400 V Rated value	kW	6
• at 690 V Rated value	kW	10.3
Operating frequency	4 /h-	750
• 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 Closing power of the magnet coil for DC	W	5.9
Holding power of the magnet coil for DC	W	5.9
	vv	0.0

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	_	
• at 230 V Rated value	А	10
• at 400 V Rated value	А	3
• at 690 V Rated value	А	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)
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	34
• at 600 V Rated value	А	27
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	3
 for single-phase AC motor at 230 V Rated value 	metric hp	5
 for three-phase AC motor at 200/208 V Rated value 	metric hp	10
• for three-phase AC motor at 220/230 V Rated	metric	10

• for three-phase AC motor at 220/230 V Rated value

hp

• for three-phase AC motor at 575/600 V Rated yalemetric hp25Context rating of the auxiliary contacts ace. to ULA600 / Q600Short-circuitShort-circuit protection of the main circuit - with type of assignment 1 requiredgL/gC LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gL/gC LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A• for short-circuit protection of the auxiliary switch requiredgL/gC LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A• for short-circuit protection of the auxiliary switch requiredgL/gC 1V HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A• for short-circuit protection of the auxiliary switch requiredgL/gC 10 AInstallation/ mounting/dimensions:#-180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting onto 35 mm standard mounting rail according to DIN EN 50022 YesMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes• Side-by-side mountingmm• Side-by-side mountingmm• with side-by-side mounting • with side-by-side mountingmm• with side-by-side mounting • with side-by-side mounting • forwardsmm• owards • owardsmm0• owardsmm<	• for three-phase AC motor at 460/480 V Rated	metric	25
value hp Contact rating of the auxiliary contacts acc. to UL A600 / C600 Short-circuit Event of a short-circuit protection of the main circuit gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A - with type of assignment 2 required gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A full of control circuit protection of the auxiliary switch required required • for short-circuit protection of the auxiliary switch required required required s3 A • for short-circuit protection of the auxiliary switch required sufface can be tilted forward and backward by +/- 22.5' on vertical mounting surface surface: can be tilted forward and backward by +/- 22.5' on vertical mounting surface Mounting type surface: can be tilted forward and backward by +/- 22.5' on vertical mounting surface surface: can be tilted forward and backward by +/- 22.5' on vertical mounting surface Mounting type surface: can be tilted forward and backward by +/- 22.5' on vertical mounting surface surface: can be tilted forward and backward by +/- 22.5' on vertical mounting on to 35 ms standard mounting rail according to DIN EN 50022 • Side-by-side mounting mm 102 Width mm 45 Depth mm 0 - forwards mm 0 - downwards <td>value</td> <td>hp metric</td> <td>25</td>	value	hp metric	25
Short-circuit: Design of the fuse link for short-circuit protection of the main circuit - with type of assignment 1 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 3S A fuse gL/gG: 10 A Installation/ mounting/ dimensions: +/-180° rotation possible on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rul according to DIN EN 50022 Yes Mounting type screw and snap-on mounting onto 35 mm standard mounting and accounting Yes Height mm 102 Width mm 107 Required spacing - • with side-by-side mounting mm • for grounded parts mm - downwards mm - at the side mm - backwards mm - at the side mm - downwards mm - at the side mm - browards mm - backwards mm - browards mm - at the side mm <tr< td=""><td>-</td><td></td><td>20</td></tr<>	-		20
Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: fuse gL/gG: 10 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gL/gG: 10 A Mounting position fuse gL/gG: 10 A Mounting type surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface • Side-by-side mounting mm Height mm	Contact rating of the auxiliary contacts acc. to UL	-	A600 / Q600
• for short-circuit protection of the main circuit gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A - with type of assignment 2 required gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A • for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A Installation/ mounting/ dimensions: +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting of sorm standard mounting rail according to DIN EN 50022 • Side-by-side mounting Yes Height mm Height mm • with side-by-side mounting mm • with side-by-side mounting mm • side-by-side mounting mm • with side-by-side mounting mm • with side-by-side mounting mm • with side-by-side mounting mm • for grounded parts mm • oorwards mm - forwards mm - upwards mm - forwards mm - at th	Short-circuit:		
	Design of the fuse link		
Image: Section of the auxiliary switch required 100 Å - with type of assignment 2 required gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 Å if or short-circuit protection of the auxiliary switch required fuse gL/gG: 10 Å Installation/ mounting/ dimensions: #/180° rotation possible on vertical mounting surface; can be titled forward and backward by +/-22.5° on vertical mounting surface Mounting type screw and snap-on mounting out 35 mm standard mounting rail according to DIN EN 50022 • Side-by-side mounting Yes Height mm 102 Width md 45 Depth mm 107 Required spacing - - • with side-by-side mounting mm 0 - forwards mm 0 - grounds mm 0 - at the side mm 0 - forwards mm 0 - forwards mm 0 - forwards mm 0 - at the side mm 0 - backwards mm 0 <td> for short-circuit protection of the main circuit </td> <td></td> <td></td>	 for short-circuit protection of the main circuit 		
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Required spacingImage: Constraint of the system mounting• with side-by-side mountingmm0- forwardsmm0- Backwardsmm0- upwardsmm0- downwardsmm0- downwardsmm0- at the sidemm0• for grounded partsmm0- forwardsmm0- forwardsmm0- at the sidemm0- backwardsmm0- at the sidemm6- at the sidemm6- at the sidemm0- at the sidemm0- for wardsmm0- for live partsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- gackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- upwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwardsmm0- hackwards <td>Width</td> <td>mm</td> <td>45</td>	Width	mm	45
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- downwardsmm0• for live partsmm0- forwardsmm0- Backwardsmm0- upwardsmm0	— upwards	mm	0
 for live parts forwards mm Backwards upwards mm Mmm O Mmm O 	— at the side	mm	6
- forwardsmm0- Backwardsmm0- upwardsmm0	— downwards	mm	0
- forwardsmm0- Backwardsmm0- upwardsmm0	 for live parts 		
— Backwardsmm0— upwardsmm0		mm	0
— upwards mm 0		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 (1 10 mm²)
— finely stranded with core end processing		2x (1 6 mm²)
 finely stranded without core end processing 		2x (1 6 mm²)
 for AWG conductors for main contacts 		2x (18 8)
 for auxiliary contacts 		
— 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 processing 		2x (0.5 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 14)
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	**	05
during operation	°C	-25 +60
during storage	°C	-55 +80
Certificates/ approvals:		

General Produc	t Approval			EMC	Functional Safety/Safety of Machinery
	CSA	EHC		С-тіск	Type Examination
Declaration of Conformity	Test Certificate	S	Shipping App	proval	
EG-Konf.	Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>	ABS	BUREAU VERITAS	ŮŇ DNV DNV
Shipping Approv	val				other
GL	Lloyd's Register LRS	PRS	RINA	RMRS	<u>Confirmation</u>
other Environmental					

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