# 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)			
<ul> <li>of the contactor typical</li> </ul>		10 000 000	
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>		5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>		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			

<ul> <li>at AC-3 Rated value maximum</li> </ul>	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	-	
<ul> <li>for auxiliary contacts</li> </ul>		
— 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]		
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	3
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	5
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	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 <ul> <li>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<></li></ul>	-		20
Design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of assignment 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> 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: <ul> <li>fuse gL/gG: 10 A</li> <li>gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A</li> <li>fuse gL/gG: 10 A</li> </ul> Mounting position <ul> <li>fuse gL/gG: 10 A</li> </ul> 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><ul> <li>for short-circuit protection of the main circuit</li> </ul></td> <td></td> <td></td>	<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
* or short-circuit protection of the auxiliary switch required     35 Å       • for 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 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     102       Width     mm     45       Depth     mm     0       • with side-by-side mounting     mm     0       • with side-by-side mounting     mm     0       • with side-by-side mounting     mm     0       • onwards     mm     0       - forwards     mm     0       - at the side     mm     0       - forwards     mm     0       - at the side     mm     0       - ownwards     mm     0       - at the side     mm     0	<ul> <li>— with type of assignment 1 required</li> </ul>		
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 onto 35 mm standard mounting rail according to DIN EN 50022         • Side-by-side mounting       Yes         Height       mm       102         Width       mm       45         Depth       mm       107         Required spacing       -       -         • with side-by-side mounting       mm       0         - forwards       mm       0         - grounds       mm       0         - at the side       mm       0         - orwards       mm       0         - at the side       mm       0         - Backwards       mm       0         - at the side       m	— with type of assignment 2 required		
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 onto 35 mm standard mounting rail according to DIN EN 50022         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       102         Width       mm       45         Depth       mm       107         Required spacing       -       -         • with side-by-side mounting       mm       0         - forwards       mm       0         - grounds       mm       0         - downwards       mm       0         - at the side       mm       0         - forwards       mm       0         - at the side       mm       0         - at the side       mm       0         - at the side       mm       6         - qownards       mm       0         - at the side       mm       0	• for short-circuit protection of the auxiliary switch		fuse gL/gG: 10 A
mounting position       +/-180° rotation possible on vertical mounting surface; can be tilled 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       102         Width       mm       45         Depth       mm       107         Required spacing           • with side-by-side mounting       mm       0         — forwards       mm       0         — ackwards       mm       0         — downwards       mm       0         — at the side       mm       0         — forwards       mm       0         — at the side       mm       0         — downwards       mm       0         — at the side       mm       0         — downwards       mm       0         — at the side       mm       6         — downwards       mm       0         — at the side       mm       6         — at the side       mm       6         — downwards       mm       0         — at the side       mm </td <td></td> <td></td> <td></td>			
mounting position       +/-180° rotation possible on vertical mounting surface; can be tilled 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       102         Width       mm       45         Depth       mm       107         Required spacing           • with side-by-side mounting       mm       0         — forwards       mm       0         — ackwards       mm       0         — downwards       mm       0         — at the side       mm       0         — forwards       mm       0         — at the side       mm       0         — downwards       mm       0         — at the side       mm       0         — downwards       mm       0         — at the side       mm       6         — downwards       mm       0         — at the side       mm       6         — at the side       mm       6         — downwards       mm       0         — at the side       mm </td <td>Installation/ mounting/ dimensions:</td> <td></td> <td></td>	Installation/ mounting/ dimensions:		
Mounting type22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmm102Widthmm45Depthmm107Required spacingmm0- forwardsmm0- growardsmm0- upwardsmm0- at the sidemm0- forwardsmm0- at the sidemm0- upwardsmm0- forwardsmm0- at the sidemm0- at the sidemm0- at the sidemm0- forwardsmm0- forwardsmm0- at the sidemm0- forwardsmm0- at the sidemm0- at the sidemm0<			+/-180° rotation possible on vertical mounting
Side-by-side mountingmounting rail according to DIN EN 50022Heightmm102Widthmm45Depthmm107Required spacing-• with side-by-side mounting forwardsmm0- gackwardsmm0- gackwardsmm0- downwardsmm0- at the sidemm0- forwardsmm0- forwardsmm0- at the sidemm0- forwardsmm0- forwardsmm0- at the sidemm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- at the sidemm6- downwardsmm0- at the sidemm6- forwardsmm0- forwardsm			
Heightmm102Widthmm45Depthmm107Required spacingmm107• with side-by-side mountingmm0- forwardsmm0- gackwardsmm0- upwardsmm0- downwardsmm0- at the sidemm0- forwardsmm0- at the sidemm0- forwardsmm0- at the sidemm0- at the side <td>Mounting type</td> <td>_</td> <td></td>	Mounting type	_	
Widthmm45Depthmm107Required spacing• with side-by-side mounting- forwardsmm0- forwardsmm0- Backwardsmm0- upwardsmm0- downwardsmm0- at the sidemm0- for grounded parts forwardsmm0- at the sidemm0- at the sidemm0- forwardsmm0- at the sidemm0- at the sidemm0- forwardsmm0- at the sidemm0- borwardsmm0- at the sidemm0- at the sidemm0- at the sidemm0- borwardsmm0- forwardsmm0- forwardsmm0- provardsmm0- provardsmm0- provardsmm0- provardsmm0- provardsmm0- provardsmm0- provardsmm0- provardsmm0- provards <td><ul> <li>Side-by-side mounting</li> </ul></td> <td></td> <td>Yes</td>	<ul> <li>Side-by-side mounting</li> </ul>		Yes
Depthmm107Required spacing• with side-by-side mounting- forwardsmm- forwardsmm- Backwardsmm- upwardsmm- downwardsmm- downwardsmm- at the sidemm- at the sidemm- for grounded parts- forwardsmm- forwardsmm- forwardsmm- forwardsmm- forwardsmm- at the sidemm- forwardsmm- horwardsmm- at the sidemm- backwardsmm- at the sidemm- backwardsmm- at the sidemm- at the sidemm- at the sidemm- backwardsmm- forwardsmm- forwardsmm- forwardsmm- forwardsmm- horwardsmm- backwardsmm- backwardsmm- upwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm- backwardsmm<	Height	mm	102
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
with side-by-side mountingImm0- forwardsmm0- Backwardsmm0- upwardsmm0- downwardsmm0- at the sidemm0- for grounded partsImm0- forwardsmm0- Backwardsmm0- at the sidemm0- forwardsmm0- forwardsmm0- upwardsmm0- at the sidemm6- at the sidemm0- at the sidemm0- for live partsImm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- marksmm0- marksmm	Depth	mm	107
forwardsmm0 Backwardsmm0 upwardsmm0 downwardsmm0 at the sidemm0 for grounded parts forwardsmm0 Backwardsmm0 at the sidemm0 backwardsmm0 at the sidemm0 at the sidemm6 at the sidemm0 at the sidemm0 forwardsmm0 forwardsmm0 forwardsmm0 forwardsmm0 Backwardsmm0 Backwardsmm0 growardsmm0 mupwardsmm0 mupwardsmm0 upwardsmm0 upwardsmm0 upwardsmm0 upwardsmm0	Required spacing	-	
- Backwardsmm0- upwardsmm0- downwardsmm0- at the sidemm0- for grounded parts forwardsmm0- Backwardsmm0- upwardsmm0- at the sidemm0- odownwardsmm0- backwardsmm0- odownwardsmm6- downwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- markedmm0- mark	<ul> <li>with side-by-side mounting</li> </ul>		
Sciencemm0- upwardsmm0- downwardsmm0- at the sidemm0• for grounded parts forwardsmm0- Backwardsmm0- upwardsmm0- at the sidemm0- at the sidemm6- downwardsmm0- for live parts forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- forwardsmm0- gackwardsmm0- upwardsmm0	— forwards	mm	0
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• for grounded partsmm0- forwardsmm0- Backwardsmm0- upwardsmm0- at the sidemm6- downwardsmm0• for live parts forwardsmm0- backwardsmm0- forwardsmm0- horwardsmm0- horwardsmm0- horwardsmm0- horwardsmm0- horwardsmm0- horwardsmm0- horwardsmm0- horwardsmm0	— downwards	mm	0
forwardsmm0 Backwardsmm0 upwardsmm0 at the sidemm6 downwardsmm0 forwardsmm0 forwardsmm0 Backwardsmm0 Backwardsmm0 mumarkmm0 mumarkmm0 mumarkmm0 mumarkmm0	— at the side	mm	0
Backwardsmm0- upwardsmm0- at the sidemm6- downwardsmm0- for live parts forwardsmm0- Backwardsmm0- upwardsmm0	<ul> <li>for grounded parts</li> </ul>		
upwardsmm0 at the sidemm6 downwardsmm0 for live parts forwardsmm0 Backwardsmm0 upwardsmm0	— forwards	mm	0
- at the sidemm6- downwardsmm0• for live parts forwardsmm0- Backwardsmm0- upwardsmm0	— Backwards	mm	0
- downwardsmm0• for live partsmm0- forwardsmm0- Backwardsmm0- upwardsmm0	— upwards	mm	0
<ul> <li>for live parts</li> <li>forwards</li> <li>mm</li> <li>Backwards</li> <li>upwards</li> <li>mm</li> <li>Mmm</li> <li>O</li> <li>Mmm</li> <li>O</li> </ul>	— at the side	mm	6
- forwardsmm0- Backwardsmm0- upwardsmm0	— downwards	mm	0
- forwardsmm0- Backwardsmm0- upwardsmm0	<ul> <li>for live parts</li> </ul>		
— 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
<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)
<ul> <li>finely stranded without core end processing</li> </ul>		2x (1 6 mm²)
<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)
<ul> <li>finely stranded without core end processing</li> </ul>		2x (0.5 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 14)
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	**	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	<b>ŮŇ</b> DNV DNV
Shipping Approv	val				other
GL	Lloyd's Register LRS	PRS	RINA	RMRS	<u>Confirmation</u>
other Environmental					

## 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=3RT20282BB40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20282BB40/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=3RT20282BB40&lang=en





