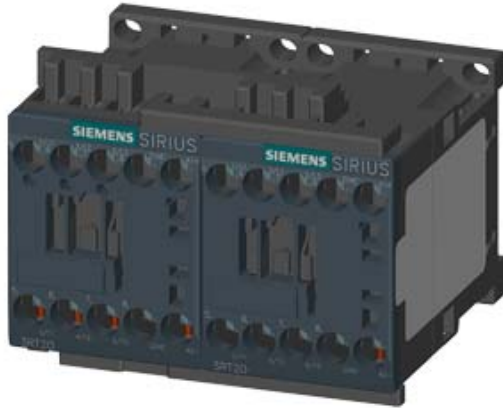


REV. COMB. FOR 3RA27, AC3, 3KW/400V, DC24V 3-POLE, SZ S00 SCREW TERMINAL ELECTR. AND MECH. INTERLOCK



product brand name		SIRIUS
Product designation		reversing contactor assembly 3RA23
<b>Manufacturer article number</b>		
<ul style="list-style-type: none"> <li>• 1 of the supplied contactor</li> <li>• 2 of the supplied contactor</li> <li>• of the supplied RH assembly kit</li> <li>• of the supplied function module for communication</li> </ul>		<a href="#">3RT2015-1BB42-0CC0</a> <a href="#">3RT2015-1BB42</a> <a href="#">3RA2913-2AA1</a> <a href="#">3RA2711-1BA00</a>

### General technical data:

<b>Insulation voltage</b>		
<ul style="list-style-type: none"> <li>• with degree of pollution 3 Rated value</li> </ul>	V	690
<b>Degree of pollution</b>		3
<b>Shock resistance</b>		9.8g / 5 ms and 5.9g / 10 ms
<b>Surge voltage resistance Rated value</b>	kV	6
<b>Mechanical service life (switching cycles)</b>		
<ul style="list-style-type: none"> <li>• of the contactor typical</li> <li>• of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000 10 000 000
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>• on the front</li> </ul>		IP20
<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>		Q

### Main circuit:

<b>Number of poles for main current circuit</b>		3
<b>Number of NC contacts for main contacts</b>		0

<b>Number of NO contacts for main contacts</b>		3
<b>Operating voltage</b>		
• at AC-3 Rated value maximum	V	690
<b>Operating current</b>		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	18
— at 400 V at ambient temperature 60 °C Rated value	A	16
• at AC-2 at 400 V Rated value	A	7
• at AC-3		
— at 400 V Rated value	A	7
• at AC-4 at 400 V Rated value	A	6.5
<b>Operating current with 1 current path</b>		
• at DC-1		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	1.5
• at DC-3 at DC-5		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	0.1
<b>Operating current with 2 current paths in series</b>		
• at DC-1		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	8.4
• at DC-3 at DC-5		
— at 110 V Rated value	A	0.25
— at 24 V Rated value	A	15
<b>Operating current with 3 current paths in series</b>		
• at DC-1		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	15
• at DC-3 at DC-5		
— at 110 V Rated value	A	15
— at 24 V Rated value	A	15
<b>Operating power</b>		
• at AC-2 at 400 V Rated value	kW	3
• at AC-4 at 400 V Rated value	kW	3
<b>Operating power</b>		
• at AC-3		
— at 400 V Rated value	kW	3
— at 500 V Rated value	kW	3.5
— at 690 V Rated value	kW	4

<b>Operating frequency</b> • at AC-3 maximum	1/h	750
<b>No-load switching frequency</b>	1/h	1 500

#### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>		DC
<b>Control supply voltage 1</b> • for DC Rated value	V	24
<b>Operating range factor control supply voltage rated value of the magnet coil for DC</b>		0.85 ... 1.1
<b>Design of the surge suppressor</b>		with varistor
<b>Closing power of the magnet coil for DC</b>	W	4
<b>Holding power of the magnet coil for DC</b>	W	4

#### Auxiliary circuit:

<b>Number of NC contacts</b> • for auxiliary contacts — per direction of rotation — instantaneous contact — lagging switching		0 0 0
<b>Number of NO contacts</b> • for auxiliary contacts — per direction of rotation — instantaneous contact — leading contact		0 0 0
<b>Product expansion Auxiliary switch</b>		Yes
<b>Operating current of the auxiliary contacts at AC-12 maximum</b>	A	10
<b>Operating current of the auxiliary contacts at AC-15</b> • at 230 V • at 400 V	A A	6 3
<b>Operating current of the auxiliary contacts at DC-13</b> • at 24 V • at 60 V • at 110 V • at 220 V	A A A A	10 2 1 0.3
<b>Contact reliability of the auxiliary contacts</b>		< 1 error per 100 million operating cycles

#### UL/CSA ratings:

<b>Full-load current (FLA) for three-phase AC motor</b> • at 480 V Rated value • at 600 V Rated value	A A	4.8 6.1
<b>yielded mechanical performance [hp]</b>		

<ul style="list-style-type: none"> <li>• for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	0.25
<ul style="list-style-type: none"> <li>• for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	0.75
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	1.5
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	2
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	3
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 575/600 V Rated value</li> </ul>	metric hp	5
<b>Contact rating of the auxiliary contacts acc. to UL</b>		A600 / Q600

### Short-circuit:

<b>Design of the fuse link</b>		
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of assignment 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A  gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A  fuse gL/gG: 10 A

### Installation/ mounting/ dimensions:

<b>mounting position</b>		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail
<b>Height</b>	mm	68
<b>Width</b>	mm	90
<b>Depth</b>	mm	73
<b>Required spacing</b>		
<ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> </ul>	mm	6 0 6 6 6  6 0 6 6

— downwards	mm	6
• for live parts		
— forwards	mm	6
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6

#### Connections/ Terminals:

<b>Type of electrical connection</b>		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
<b>Type of connectable conductor cross-section</b>		
• for main contacts		
— single or multi-stranded		2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x (0,5 ... 4 mm <sup>2</sup> )
— finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors for main contacts		2x (20 ... 16), 2x (18 ... 14)
• for auxiliary contacts		
— single or multi-stranded		2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )
— finely stranded with core end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG conductors for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)

#### Safety related data:

<b>B10 value with high demand rate acc. to SN 31920</b>		1 000 000
<b>Proportion of dangerous failures</b>		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	75
<b>Failure rate [FIT] with low demand rate acc. to SN 31920</b>	FIT	100
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	y	20
<b>Protection against electrical shock</b>		finger-safe

#### Mechanical data:

<b>Size of contactor</b>		S00
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#### Communication/ Protocol:

<b>Product function Bus communication</b>		Yes
<b>Protocol is supported</b>		
• AS-interface protocol		No
<b>Product function Control circuit interface with IO link</b>		Yes

#### Ambient conditions:

<b>Installation altitude at height above sea level maximum</b>	m	2 000
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### Ambient temperature

- during operation
- during storage

°C	-25 ... +60
°C	-55 ... +80

### Certificates/ approvals:

#### General Product Approval



EG-Konf.

#### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

### Shipping Approval



GL



LRS



PRS

### Shipping Approval

#### other



RINA



RMRS

[Environmental Confirmations](#)

[other](#)

### 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

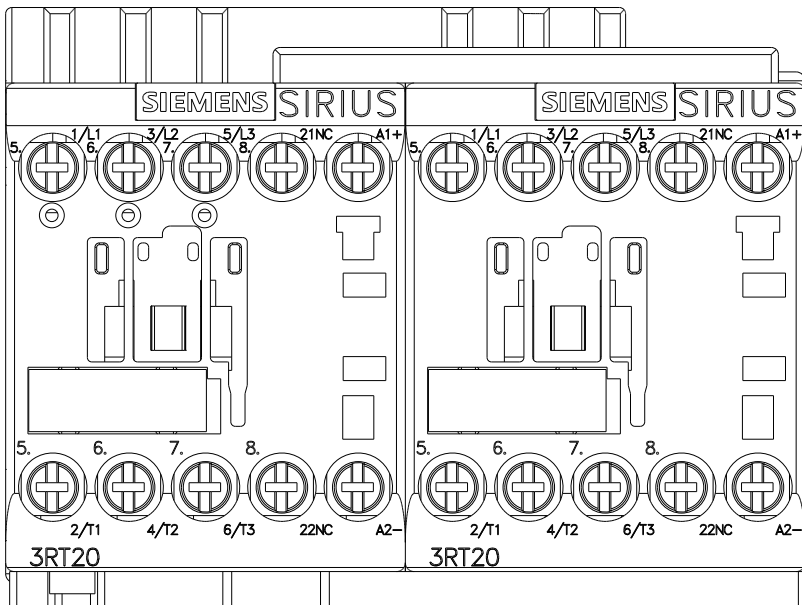
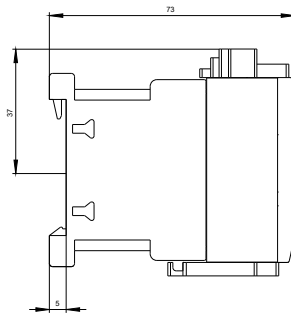
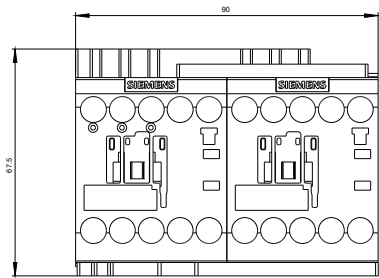
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23158XE301BB4>

#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

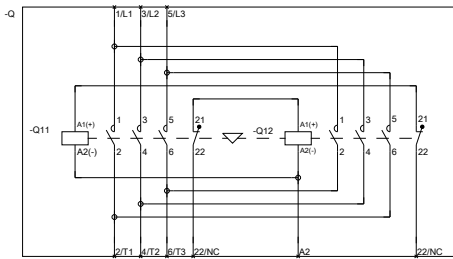
<http://support.automation.siemens.com/WW/view/en/3RA23158XE301BB4/all>

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA23158XE301BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA23158XE301BB4&lang=en)



WENDEKOMBINATION BGR. S00



REVERSING COMB. SZ S00

last modified:

11.03.2015