

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



<b>product brand name</b>	SIRIUS
<b>Product designation</b>	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>Size of contactor</b>	S00
<b>Product expansion</b>	
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>	Yes
<b>Insulation voltage</b>	
<ul style="list-style-type: none"> <li>• with degree of pollution 3 Rated value</li> </ul>	690 V
<b>Surge voltage resistance Rated value</b>	6 kV
<b>Protection class IP</b>	
<ul style="list-style-type: none"> <li>• on the front</li> </ul>	IP20
<b>Degree of pollution</b>	3
<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>Equipment marking</b>	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	Q

Ambient conditions:

<b>Installation altitude at height above sea level maximum</b>	2 000 m
<b>Ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
<b>Main circuit:</b>	
<b>Number of poles for main current circuit</b>	3
<b>Number of NO contacts for main contacts</b>	3
<b>Number of NC contacts for main contacts</b>	0
<b>Operating voltage</b>	
• at AC-3 Rated value maximum	690 V
<b>Operating current</b>	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	18 A
— at ambient temperature 60 °C Rated value	16 A
• at AC-2 at 400 V Rated value	7 A
• at AC-3	
— at 400 V Rated value	7 A
<b>Operating current</b>	
• with 1 current path at DC-1	
— at 24 V Rated value	15 A
— at 110 V Rated value	1.5 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	15 A
— at 110 V Rated value	8.4 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	15 A
— at 110 V Rated value	15 A
<b>Operating current</b>	
• with 1 current path at DC-3 at DC-5	
— at 24 V Rated value	15 A
— at 110 V Rated value	0.1 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	0.25 A
— at 24 V Rated value	15 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	15 A
— at 24 V Rated value	15 A
<b>No-load switching frequency</b>	1 500 1/h
<b>Operating frequency</b>	
• at AC-1 maximum	1 000 1/h

• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 1/h

#### Control circuit/ Control:

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

#### Auxiliary circuit:

<b>Number of NC contacts</b>	
• for auxiliary contacts	
— per direction of rotation	0
— instantaneous contact	0
— lagging switching	0
<b>Number of NO contacts</b>	
• for auxiliary contacts	
— per direction of rotation	0
— instantaneous contact	0
— leading contact	0
<b>Operating current of the auxiliary contacts at AC-12 maximum</b>	10 A
<b>Operating current of the auxiliary contacts at AC-15</b>	
• at 230 V	6 A
• at 400 V	3 A
<b>Operating current of the auxiliary contacts at DC-13</b>	
• at 24 V	10 A
• at 60 V	2 A
• at 110 V	1 A
• at 220 V	0.3 A
<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	4.8 A
• at 600 V Rated value	6.1 A
<b>yielded mechanical performance [hp]</b>	
• for single-phase AC motor	
— at 110/120 V Rated value	0.25 hp

— at 230 V Rated value	0.75 hp
• for three-phase AC motor	
— at 200/208 V Rated value	1.5 hp
— at 220/230 V Rated value	2 hp
— at 460/480 V Rated value	3 hp
— at 575/600 V Rated value	5 hp
<b>Contact rating of the auxiliary contacts acc. to UL</b>	A600 / Q600

**Short-circuit:**

<b>Design of the fuse link</b>	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
• for short-circuit protection of the auxiliary switch required	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>	68 mm
<b>Width</b>	90 mm
<b>Depth</b>	73 mm
<b>Required spacing</b>	
• with side-by-side mounting	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
• for grounded parts	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
• for live parts	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm

**Connections/ Terminals:**

<b>Type of electrical connection</b> <ul style="list-style-type: none"><li>• for main current circuit</li><li>• for auxiliary and control current circuit</li></ul>	screw-type terminals screw-type terminals
<b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"><li>• for main contacts<ul style="list-style-type: none"><li>— single or multi-stranded</li><li>— finely stranded with core end processing</li></ul></li><li>• for AWG conductors for main contacts</li></ul>	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> ) 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 2x (20 ... 16), 2x (18 ... 14)
<b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"><li>• for auxiliary contacts<ul style="list-style-type: none"><li>— single or multi-stranded</li><li>— finely stranded with core end processing</li></ul></li><li>• for AWG conductors for auxiliary contacts</li></ul>	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ) 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 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> <ul style="list-style-type: none"><li>• with low demand rate acc. to SN 31920</li><li>• with high demand rate acc. to SN 31920</li></ul>	40 % 75 %
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	20 y

**Communication/ Protocol:**

<b>Product function Bus communication</b>	Yes
<b>Protocol is supported</b> <ul style="list-style-type: none"><li>• AS-interface protocol</li></ul>	No

**Certificates/ approvals:**

General Product Approval			Declaration of Conformity	Test Certificates	
 CSA	 UL		 EG-Konf.	<a href="#">spezielle Prüfbescheinigungen</a>	<a href="#">Typprüfbescheinigung/Werkszeugnis</a>

Shipping Approval					
 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS	 PRS

Shipping Approval	other
 RINA	 RMRS
	<a href="#">Umweltbestätigung</a>

### 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**

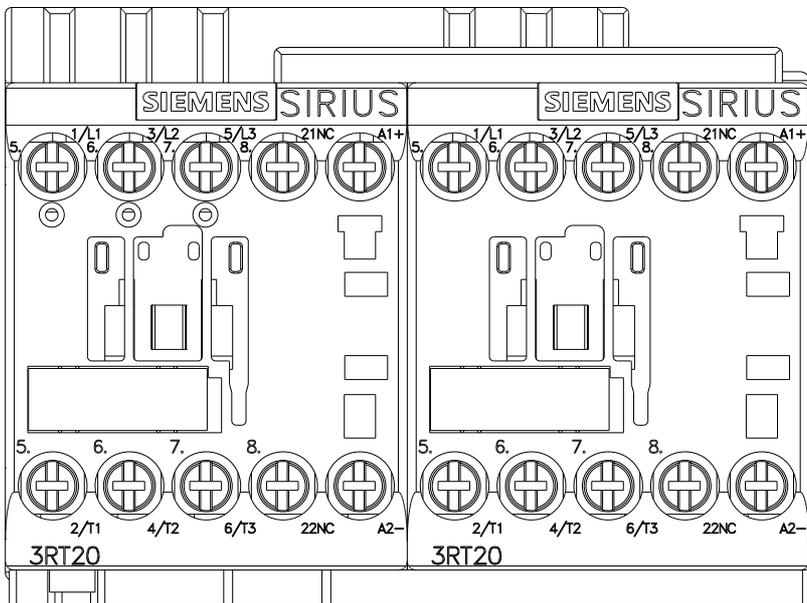
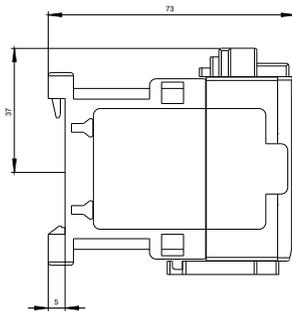
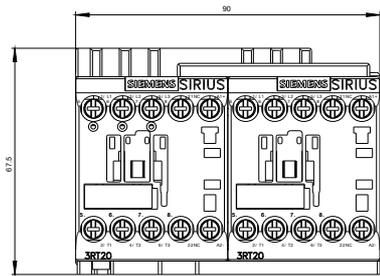
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23158XE301BB4>

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

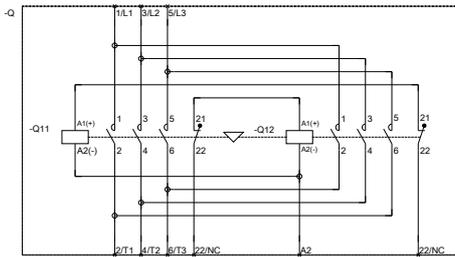
<https://support.industry.siemens.com/cs/ww/en/ps/3RA23158XE301BB4>

**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

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