

reversing contactor assembly, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, screw terminal, electrical and mechanical interlock



product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	<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> </ul> <a href="#">3RT2015-1AP62</a> <a href="#">3RT2015-1AP62</a> <a href="#">3RA2913-2AA1</a>
<b>General technical data</b>	
size of contactor	S00
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	<ul style="list-style-type: none"> <li>• at AC 6,7g / 5 ms, 4,2g / 10 ms</li> <li>• at DC 6,7g / 5 ms, 4,2g / 10 ms</li> </ul>
shock resistance with sine pulse	<ul style="list-style-type: none"> <li>• at AC 10,5g / 5 ms, 6,6g / 10 ms</li> <li>• at DC 10,5g / 5 ms, 6,6g / 10 ms</li> </ul>
mechanical service life (operating cycles)	<ul style="list-style-type: none"> <li>• of contactor typical 10 000 000</li> <li>• of the contactor with added auxiliary switch block typical 10 000 000</li> </ul>
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.493 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	<ul style="list-style-type: none"> <li>• during operation -25 ... +60 °C</li> <li>• during storage -55 ... +80 °C</li> </ul>
<b>Main circuit</b>	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	<ul style="list-style-type: none"> <li>• at AC-3 rated value maximum 690 V</li> <li>• at AC-3e rated value maximum 690 V</li> </ul>
operational current	<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value 7 A</li> <li>— at 500 V rated value 6 A</li> <li>— at 690 V rated value 4.9 A</li> </ul> </li> <li>• at AC-3e</li> </ul>

— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
<b>operating power</b>	
• at AC-3	
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-4 at 400 V rated value	3 kW
<b>operating frequency</b>	
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	AC
<b>control supply voltage 1 at AC</b>	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	240 V
<b>operating range factor control supply voltage rated value of magnet coil at AC</b>	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.85 ... 1.1
<b>apparent pick-up power of magnet coil at AC</b>	27 VA
• at 50 Hz	
— at 50 Hz	0.8
<b>inductive power factor with closing power of the coil</b>	
• at 50 Hz	
— at 50 Hz	0.8
<b>apparent holding power of magnet coil at AC</b>	4.2 VA
• at 50 Hz	
— at 50 Hz	0.25
<b>Auxiliary circuit</b>	
<b>contact reliability of auxiliary contacts</b>	< 1 error per 100 million operating cycles
<b>UL/CSA ratings</b>	
<b>full-load current (FLA) for 3-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] for 3-phase AC motor</b>	
• 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 auxiliary contacts according to UL</b>	A600 / Q600
<b>Short-circuit protection</b>	
<b>design of the fuse link</b>	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of coordination 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
• for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
<b>Installation/ mounting/ dimensions</b>	
<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>fastening method</b>	screw and snap-on mounting onto 35 mm DIN 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>	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
• at contactor for auxiliary contacts	Screw-type terminals
• of magnet coil	Screw-type terminals
<b>type of connectable conductor cross-sections for main contacts</b>	
• solid	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
• solid or 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> )
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
— solid or 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 (20 ... 16), 2x (18 ... 14)

#### Safety related data

product function suitable for safety function	Yes
Electrical Safety	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front

#### Communication/ Protocol

product function bus communication	Yes
protocol is supported AS-Interface protocol	No
product function control circuit interface with IO link	No

#### Approvals Certificates

General Product Approval	Test Certificates
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[Type Test Certific-  
ates/Test Report](#)

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#### Maritime application



Maritime application	other	Railway	Environment
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## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2315-8XB30-1AP6>

### Cax online generator

<http://support.automation.siemens.com/WW/CAxorder/default.aspx?lang=en&mlfb=3RA2315-8XB30-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-1AP6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2315-8XB30-1AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2315-8XB30-1AP6&lang=en)

### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-1AP6/char>

### Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-1AP6&objecttype=14&gridview=view1>



