

reversing contactor assembly, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 230 V AC, 50/60 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="#">3RT2018-1AP02</a> <a href="#">3RT2018-1AP02</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 7,3g / 5 ms, 4,7g / 10 ms</li> <li>• at DC 7,3g / 5 ms, 4,7g / 10 ms</li> </ul>
shock resistance with sine pulse	<ul style="list-style-type: none"> <li>• at AC 11,4g / 5 ms, 7,3g / 10 ms</li> <li>• at DC 11,4g / 5 ms, 7,3g / 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
Net Weight	0.51 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 16 A</li> <li>— at 500 V rated value 12.4 A</li> <li>— at 690 V rated value 8.9 A</li> </ul> </li> </ul>

• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
<b>operating power</b>	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-4 at 400 V rated value	5.5 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	230 V
• at 60 Hz rated value	230 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>	
• at 50 Hz	37 VA
<b>inductive power factor with closing power of the coil</b>	
• at 50 Hz	0.8
<b>apparent holding power of magnet coil at AC</b>	
• at 50 Hz	5.7 VA
<b>inductive power factor with the holding power of the coil</b>	
• at 50 Hz	0.28
<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	14 A
• at 600 V rated value	11 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	3 hp
• at 220/230 V rated value	5 hp
• at 460/480 V rated value	10 hp
• at 575/600 V rated value	10 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: 50 A
— with type of coordination 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 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	6 mm
— forwards	0 mm
— backwards	6 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
• for grounded parts	6 mm
— forwards	0 mm
— backwards	6 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
• for live parts	6 mm
— forwards	0 mm
— backwards	6 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 (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for AWG cables for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14)

#### Safety related data

product function suitable for safety function	Yes
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	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

Environment	General Product Approval	Test Certificates
<a href="#">Environmental Confirmations</a>	 EG-Konf.	   <a href="#">Type Test Certificates/Test Report</a>

Test Certificates	Maritime application
<a href="#">Special Test Certificate</a>	 ABS
	 BUREAU VERITAS
	 DNV
	 LRS
	 PRIS

Maritime application	other	Railway
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产品合格  
QC PASS

[Confirmation](#)

[Special Test Certificate](#)

#### Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RA2318-8XB30-1AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-1AP0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2318-8XB30-1AP0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2318-8XB30-1AP0&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2318-8XB30-1AP0>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



