



reversing contactor assembly, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO

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="#">3RT2025-1AK60</a> <a href="#">3RT2025-1AK60</a> <a href="#">3RA2923-2AA1</a>
<b>General technical data</b>	
size of contactor	S0
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	<ul style="list-style-type: none"> <li>• at AC 7,5g / 5 ms, 4,7g / 10 ms</li> <li>• at DC 10g / 5 ms, 7,5g / 10 ms</li> </ul>
shock resistance with sine pulse	<ul style="list-style-type: none"> <li>• at AC 11,8g / 5 ms, 7,4g / 10 ms</li> <li>• at DC 15g / 5 ms, 10g / 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	0.79 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	
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A

• at AC-3e		
— at 400 V rated value	17 A	
— at 500 V rated value	17 A	
— at 690 V rated value	13 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	11 kW	
• at AC-3e		
— at 400 V rated value	7.5 kW	
— at 690 V rated value	11 kW	
• at AC-4 at 400 V rated value	7.5 kW	
<b>operating frequency</b>		
• at AC-3 maximum	1 000 1/h	
• at AC-3e maximum	1 000 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	110 V	
• at 60 Hz rated value	120 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	0.8 ... 1.1	
<b>apparent pick-up power of magnet coil at AC</b>		
• at 50 Hz	65 VA	
<b>inductive power factor with closing power of the coil</b>		
• at 50 Hz	0.82	
<b>apparent holding power of magnet coil at AC</b>		
• at 50 Hz	8.5 VA	
<b>inductive power factor with the holding power of the coil</b>		
• at 50 Hz	0.25	
<b>Auxiliary circuit</b>		
number of NO contacts for auxiliary contacts		
• per direction of rotation	1	
• instantaneous contact	2	
<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	17 A	
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V rated value	5 hp	
• at 460/480 V rated value	10 hp	
• at 575/600 V rated value	15 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: 63 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>	101 mm	
<b>width</b>	90 mm	

depth	97 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 (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )
• solid or stranded	2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )
• finely stranded with core end processing	2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— 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	
<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	Maritime application
   	<a href="#">Special Test Certificate</a>	

#### Maritime application



[Confirmation](#)[Special Test Certificate](#)[Environmental Confirmations](#)

### 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=3RA2325-8XB30-1AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-1AK6>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2325-8XB30-1AK6&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2325-8XB30-1AK6&lang=en)

#### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2325-8XB30-1AK6>

#### Characteristic curves

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



