



reversing contactor assembly, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO, with voltage tap for 3RA27

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Reversing contactor assembly
<b>product type designation</b>	3RA23
<b>manufacturer's 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 RS assembly kit</li> </ul>	<a href="#">3RT2038-1NB30-0CC0</a> <a href="#">3RT2038-1NB30</a> <a href="#">3RA2933-2AA1</a>
<b>General technical data</b>	
<b>size of contactor</b>	S2
product extension auxiliary switch	Yes
<b>shock resistance at rectangular impulse</b>	
<ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>	7.7 g / 5 ms, 4.5 g / 10 ms 7.7 g / 5 ms, 4.5 g / 10 ms
<b>shock resistance with sine pulse</b>	
<ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>	12 g / 5 ms, 7 g / 10 ms 12 g / 5 ms, 7 g / 10 ms
<b>mechanical service life (operating cycles)</b>	
<ul style="list-style-type: none"> <li>• of contactor typical</li> <li>• of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000 10 000 000
<b>reference code according to IEC 81346-2</b>	Q
<b>Substance Prohibition (day/month/year)</b>	10/01/2014
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 Melamine CAS-No. 108-78-1
<b>Net Weight</b>	2.8 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-25 ... +60 °C -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>	0
<b>number of NC contacts for main contacts</b>	0
<b>operating voltage</b>	
<ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> </ul>	690 V 690 V
<b>operational current</b>	
<ul style="list-style-type: none"> <li>• at AC-3</li> </ul>	

— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
● at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
<b>operating power</b>	
● at AC-3	
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
● at AC-3e	
— at 400 V rated value	37 kW
— at 690 V rated value	45 kW
● at AC-4 at 400 V rated value	30 kW
<b>operating frequency</b>	
● at AC-3 maximum	500 1/h
● at AC-3e maximum	500 1/h
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	AC/DC
<b>control supply voltage 1 at AC</b>	
● at 50 Hz	20 ... 33 V
● at 60 Hz	20 ... 33 V
<b>control supply voltage 1 at DC</b>	20 ... 33 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>design of the surge suppressor</b>	with varistor
<b>apparent pick-up power of magnet coil at AC</b>	
● at 50 Hz	40 VA
● at 60 Hz	40 VA
<b>inductive power factor with closing power of the coil</b>	
● at 50 Hz	0.64
● at 60 Hz	0.5
<b>apparent holding power of magnet coil at AC</b>	
● at 50 Hz	2 VA
● at 60 Hz	2 VA
<b>inductive power factor with the holding power of the coil</b>	
● at 50 Hz	0.36
● at 60 Hz	0.39
<b>closing power of magnet coil at DC</b>	23 W
<b>holding power of magnet coil at DC</b>	1 W
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	
● per direction of rotation	0
<b>number of NO contacts for auxiliary contacts</b>	
● 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	65 A
● at 600 V rated value	62 A
<b>yielded mechanical performance [hp] for 3-phase AC motor</b>	
● at 220/230 V rated value	20 hp
● at 460/480 V rated value	50 hp
● at 575/600 V rated value	60 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>		
<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 coordination 1 required</li> <li>— with type of coordination 2 required</li> </ul> </li> <li>● for short-circuit protection of the auxiliary switch required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A 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>	141 mm	
<b>width</b>	120 mm	
<b>depth</b>	130 mm	
<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> <li>— downwards</li> </ul> </li> <li>● for live parts <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> </ul>	10 mm 0 mm 10 mm 10 mm 10 mm  10 mm 0 mm 10 mm 10 mm 10 mm  10 mm 0 mm 10 mm 10 mm 10 mm	
<b>Connections/ Terminals</b>		
<b>type of electrical connection</b>		
<ul style="list-style-type: none"> <li>● for main current circuit</li> <li>● for auxiliary and control circuit</li> <li>● at contactor for auxiliary contacts</li> <li>● of magnet coil</li> </ul>	screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals	
<b>type of connectable conductor cross-sections for main contacts</b>		
<ul style="list-style-type: none"> <li>● solid</li> <li>● solid or stranded</li> <li>● finely stranded with core end processing</li> </ul>	2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> ) 2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> ) 2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )	
<b>type of connectable conductor cross-sections</b>		
<ul style="list-style-type: none"> <li>● for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>● for AWG cables 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)	
<b>Safety related data</b>		
product function suitable for safety function	Yes	
<b>Electrical Safety</b>		
<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	
<b>Communication/ Protocol</b>		
<b>product function bus communication</b>	Yes	
protocol is supported AS-Interface protocol	No	
product function control circuit interface with IO link	No	
<b>Approvals Certificates</b>		
<b>Environment</b>	<b>General Product Approval</b>	<b>Test Certificates</b>

[Environmental Con-  
firmations](#)



[Type Test Certific-  
ates/Test Report](#)

#### Maritime application



#### other

[Confirmation](#)

[Confirmation](#)



#### 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=3RA2338-8XE30-1NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2338-8XE30-1NB3>

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

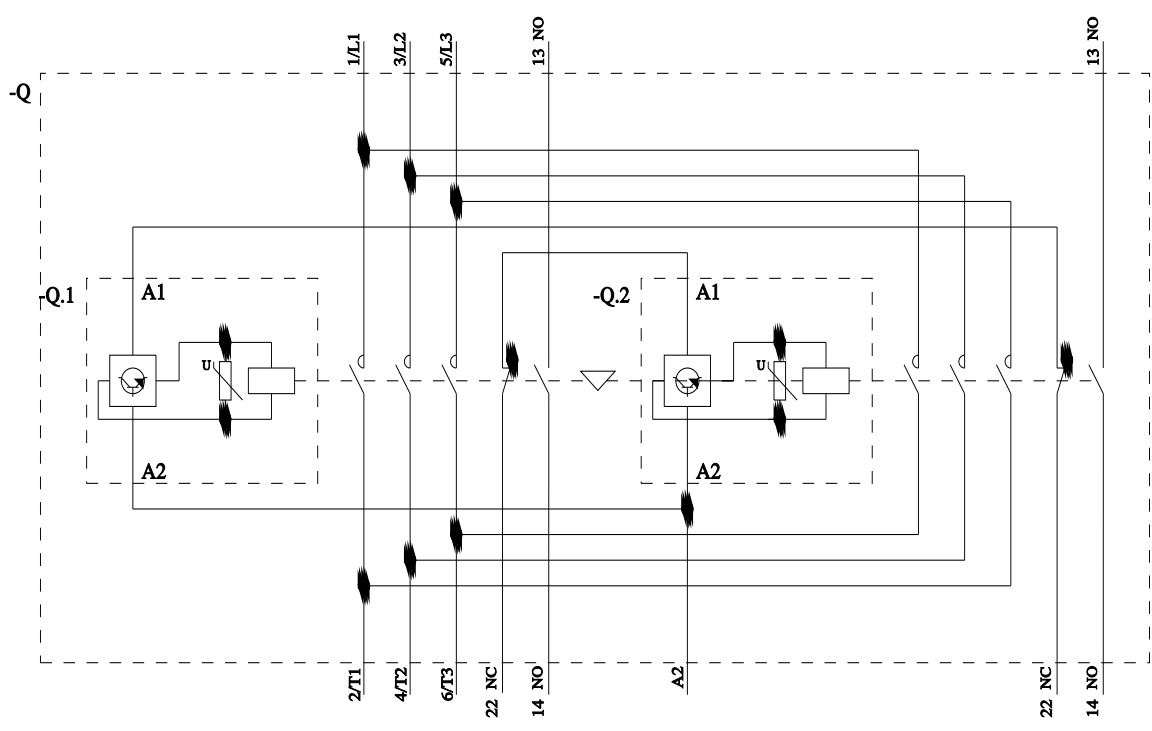
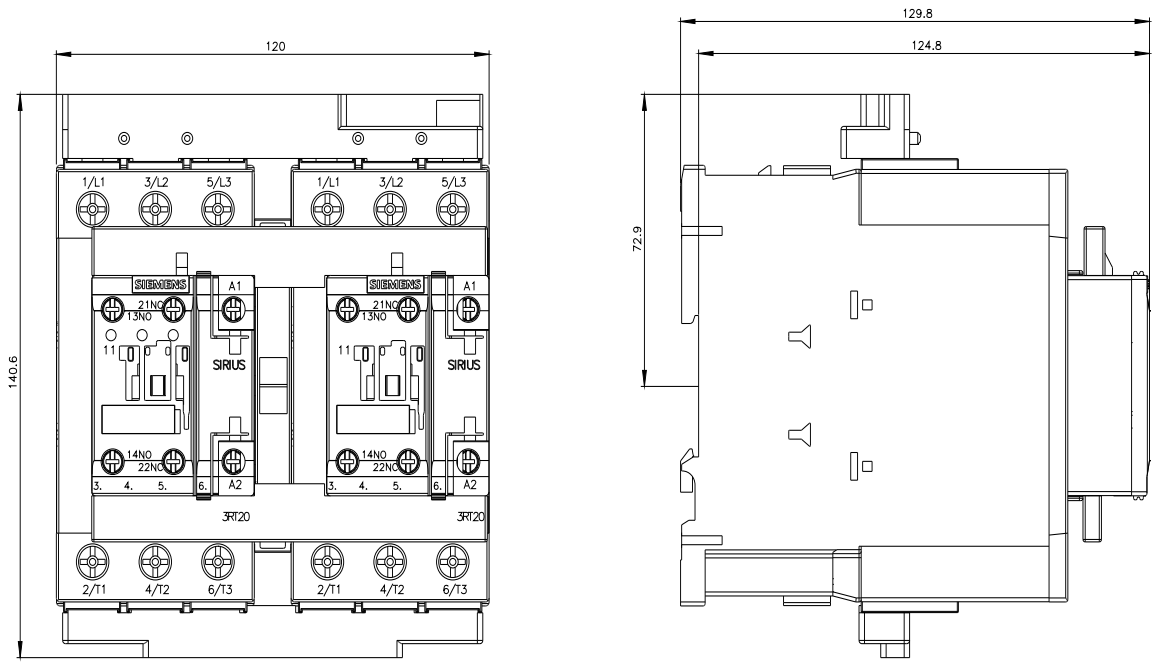
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Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2338-8XE30-1NB3>

Characteristic curves

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



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