## SIEMENS

## Data sheet

## 3RA2324-8XB30-2AG2



reversing contactor assembly, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, spring-loaded terminal, electrical and mechanical interlock, auxiliary contacts:  $2 \times 1 \text{ NO}$ 

product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
<ul> <li>1 of the supplied contactor</li> </ul>	<u>3RT2024-2AG20</u>
<ul> <li>2 of the supplied contactor</li> </ul>	<u>3RT2024-2AG20</u>
<ul> <li>of the supplied RH assembly kit</li> </ul>	<u>3RA2923-2AA2</u>
General technical data	
size of contactor	SO
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
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	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A

— at 500 V rated value	12 A
— at 690 V rated value	9 A
operating power	
• at AC-3	
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 400 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	5.5 kW
operating frequency	
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	110.1/
at 50 Hz rated value	110 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	0.0 1.1
• at 50 Hz	65 VA
	05 VA
inductive power factor with closing power of the coil	0.00
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
Auxiliary circuit	
Auxiliary circuit number of NO contacts for auxiliary contacts	
	1
number of NO contacts for auxiliary contacts	1 2
number of NO contacts for auxiliary contacts <ul> <li>per direction of rotation</li> </ul>	
number of NO contacts for auxiliary contacts <ul> <li>per direction of rotation</li> <li>instantaneous contact</li> </ul>	2
number of NO contacts for auxiliary contacts <ul> <li>per direction of rotation</li> <li>instantaneous contact</li> </ul> <li>contact reliability of auxiliary contacts</li>	2
number of NO contacts for auxiliary contacts <ul> <li>per direction of rotation</li> <li>instantaneous contact</li> </ul> <li>contact reliability of auxiliary contacts</li> <li>UL/CSA ratings</li>	2
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ERIC ERIC	L CE UK A Special Test Certific- ate
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General Product Approval	Declaration of Conformity Test Certificates
Certificates/ approvals	
product function control circuit interface with IO link	No
protocol is supported AS-Interface protocol	No
product function bus communication	Yes
Communication/ Protocol	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
61508 protection class IP on the front according to IEC 60529	IP20
T1 value for proof test interval or service life according to IEC	20 a
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
<ul> <li>with high demand rate according to SN 31920</li> </ul>	75 %
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
proportion of dangerous failures	
B10 value with high demand rate according to SN 31920	1 000 000
Safety related data	
for AWG cables for auxiliary contacts	2x (20 14)
— finely stranded without core end processing	2x (0.5 1.5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> )
— solid or stranded	2x (0.5 2.5 mm²)
for auxiliary contacts	
type of connectable conductor cross-sections	
finely stranded without core end processing	2x (1 6 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )
<ul> <li>solid or stranded</li> </ul>	2x (1 10 mm <sup>2</sup> )
• solid	2x (1 10 mm²)
type of connectable conductor cross-sections for main contacts	
of magnet coil	Spring-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
for main current circuit	spring-loaded terminals
type of electrical connection	
Connections/ Terminals	
— at the side	6 mm
— downwards	6 mm
— upwards	6 mm
— backwards	0 mm
— forwards	6 mm
<ul> <li>for live parts</li> </ul>	
— downwards	6 mm
— at the side	6 mm
— upwards	6 mm
— backwards	0 mm
— forwards	6 mm
for grounded parts	0 mm
— downwards — at the side	6 mm 6 mm
— upwards	6 mm
— backwards	0 mm

Marine / Shipping



Railway





Marine / Shipping

**Confirmation** 

other

Vibration and Shock

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RA2324-8XB30-2AG2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2324-8XB30-2AG2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2324-8XB30-2AG2

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

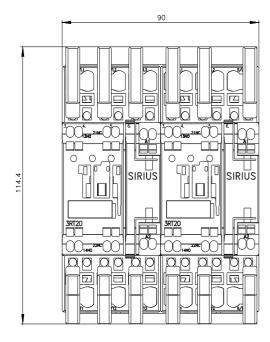
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2324-8XB30-2AG2&lang=en

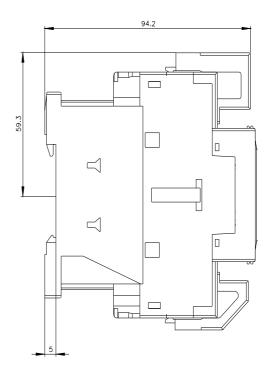
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

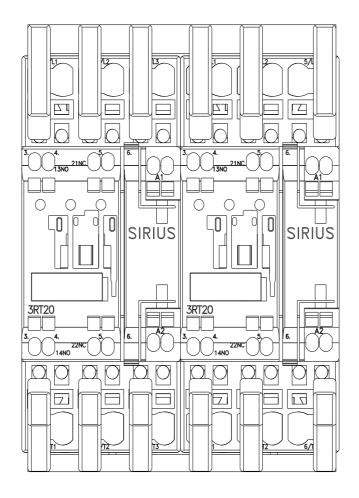
https://support.industry.siemens.com/cs/ww/en/ps/3RA2324-8XB30-2AG2/char

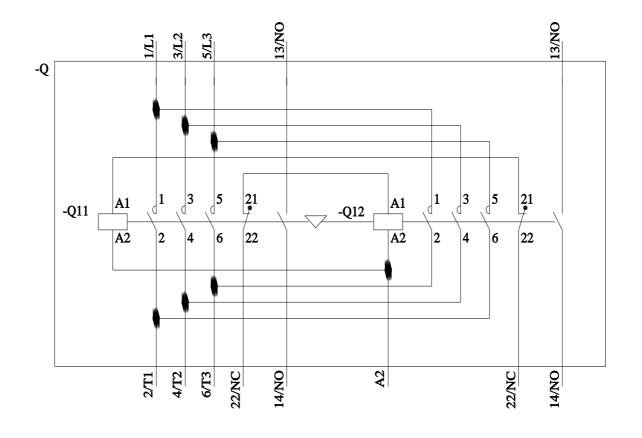
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2324-8XB30-2AG2&objecttype=14&gridview=view1









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