## SIEMENS

## Data sheet

## 3RA2315-8XB30-2FB4



Reversing contactor assembly AC-3, 3 kW/400 V, 24 V DC 3-pole, Size S00 Spring-type terminal electrical and mechanical interlock with integrated diode

man do at hanned a sure			
product brand name	SIRIUS		
product designation	Reversing contactor assembly		
product type designation	3RA23		
manufacturer's article number			
1 of the supplied contactor	<u>3RT2015-2FB42</u>		
2 of the supplied contactor	<u>3RT2015-2FB42</u>		
<ul> <li>of the supplied RH assembly kit</li> </ul>	<u>3RA2913-2AA2</u>		
General technical data			
size of contactor	S00		
product extension auxiliary switch	Yes		
shock resistance at rectangular impulse			
• at AC	6,7g / 5 ms, 4,2g / 10 ms		
• at DC	6,7g / 5 ms, 4,2g / 10 ms		
shock resistance with sine pulse			
• at AC	10,5g / 5 ms, 6,6g / 10 ms		
• at DC	10,5g / 5 ms, 6,6g / 10 ms		
mechanical service life (switching cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added auxiliary switch block</li> </ul>	10 000 000		
typical	-		
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			
<ul> <li>during operation</li> </ul>	-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		
operational current at AC-3			
<ul> <li>at 400 V rated value</li> </ul>	7 A		
• at 500 V rated value	6 A		
at 690 V rated value	4.9 A		
operating power			
• at AC-3			
— at 400 V rated value	3 kW		

— at 690 V rated value4• at AC-4 at 400 V rated value3	kW		
at AC-4 at 400 V rated value 3     operating frequency at AC-3 maximum 75     Control circuit/ Control			
operating frequency at AC-3 maximum 75 Control circuit/ Control	4 kW		
Control circuit/ Control	3 kW 750 1/h		
type of voltage of the control supply voltage			
control supply voltage 1			
	4 V		
	ode		
	W		
	W		
Auxiliary circuit			
	1 error per 100 million operating cycles		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value 4.	8 A		
• at 600 V rated value 6.	1 A		
yielded mechanical performance [hp] for 3-phase AC motor			
	5 hp		
	hp		
	hp		
	hp		
	600 / Q600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
	G NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A		
	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A		
for short-circuit protection of the auxiliary switch     required	se gG: 10 A		
Installation/ mounting/ dimensions			
	-180° rotation possible on vertical mounting surface; can be tilted		
	rward and backward by +/- 22.5° on vertical mounting surface		
	crew and snap-on mounting onto 35 mm standard mounting rail		
	4 mm ) mm		
	3 mm		
	5 mm		
required spacing			
with side-by-side mounting     forwards			
— forwards 6	mm		
he elever de	mm		
— upwards 6	mm		
— upwards6— downwards6	mm		
— upwards6— downwards6— at the side6			
— upwards       6         — downwards       6         — at the side       6         • for grounded parts       6	mm mm		
upwards       6         downwards       6         at the side       6         • for grounded parts       6         forwards       6	mm mm		
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a. at contacts for auxiliary contacts     Sping-type terminals       9. d' magnet coll     Sping-type terminals       9. d' magnet coll     Sping-type terminals       9. d' maine contacts     Sping-type terminals       9. d' maine contacts     Sping-type terminals       9. d' maine contacts     Sping-type terminals       9. add or stranded     Sping-type terminals       9. d' auxiliary contacts     Sping-typ	<ul> <li>for auxiliary and control circuit</li> </ul>		spring-loaded terminals		
• of magnet col       Spring-type terminals         • up of connectable conductor cross-sections       2x (0.5 4 mm <sup>2</sup> )         • solid       2x (0.5 4 mm <sup>2</sup> )         • solid or stranded       2x (0.5 4 mm <sup>2</sup> )         • new ystranded with core end processing       100 (5 1.5 mm <sup>2</sup> )         • new ystranded with core end processing       100 (5 1.5 mm <sup>2</sup> )         • new ystranded with core end processing       1000 000         • new ystranded with core end processing       1000 000         • new ystranded with core end processing       1000 000         • new ystranded with core end processing       1000 000         • new ystranded without core end processing       1000 000         • new ystranded without core ned processing       1000 000         • new ystranded without core ind processing       1000 000         • new ystranded without core ind processing       1000 000         • with low demand rate according to SN 31920       100 FTT         • strategy with low demand rate according to SN 31920       100 FTT         • true to profiles interval or service life according to IEC 00529       Inger-safe, for vertical contact from the front         • protection on the front according to IEC 00529       Inger-safe, for vertical contact from the front         • protouct function control circuit interface with IO Ink       No	-	ts			
Type of connectable conductor cross-sections         • for main contacts         - solid         - solid or stranded         - finely stranded with core end processing         • to a AWG cables for main contacts         Type of connectable conductor cross-sections         • to a uxiliary contacts         - finely stranded with core end processing         - with high demain rate according to SN 31920         - with low demain rate according to SN 31920         - with low demaind rate according to SN 31920         - with low demaind rate according to SN 31920         - strate rate Firll with low demaind rate according to SN 31920         - fired strate protocol         protoction costs IP on the front according to IEC 60523         Confirmation		10			
• for main contacts          - sold          - sold          - sold		ss-sections	opining type terminate		
- solid       2k (0.5 4 mm <sup>2</sup> )         - solid or stranded       2k (0.5 4 mm <sup>2</sup> )         - finely stranded without core end processing       3k (0.5 2.5 mm <sup>2</sup> )         - invel stranded without core end processing       3k (0.5 2.5 mm <sup>2</sup> )         - invel stranded without core end processing       3k (0.5 2.5 mm <sup>2</sup> )         - invel stranded without core end processing       3k (0.5 1.5 mm <sup>2</sup> )         - invel stranded without core end processing       2k (0.5 1.5 mm <sup>2</sup> )         - invel stranded without core end processing       3k (0.5 1.5 mm <sup>2</sup> )         - invel stranded without core end processing       2k (0.5 1.5 mm <sup>2</sup> )         - invel stranded with big demand rate according to SN 31920       1000 000         Propertion of dangerous failures       40 %         - with high demand rate according to SN 31920       100 FIT         - with with we demand rate according to SN 31920       100 FIT         - State protection class IP on the front according to IEC       100 E         - forduct Approval       20 y         - protoction class IP on the front according to IEC       100 E         - forduct Approval       No         - protoction class IP on the front according to IEC       100 E         - forduct Approval       No         - contriticates' approval       Confinnation	••				
			$2x (0.5 \ 4 \text{ mm}^2)$		
		nd processing			
• at AWG cables for main contacts       1x (20 12)         type of connectable conductor cross-sections       • solutions in the standed         • of a usiliary contacts       = solid of standed         - inely stranded withou core end processing       = x (0.5 1.5 mm <sup>2</sup> )         - at AWG cables for auxiliary contacts       2x (0.5 1.5 mm <sup>2</sup> )         Safety related data       = 000 000         Proportion of dangerous failures       40 %         • with high demand rate according to SN 31920       1 000 000         Proportion of dangerous failures       40 %         • with high demand rate according to SN 31920       1000 FT         - with high demand rate according to SN 31920       1000 FT         - fullue rate [F1] with low demand rate according to IEC 60529       Incerval FT         Disclass P on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Product function bus communication       Yes         protocol function bus conduct interface with IO link       No         Confirmation       Yes         Social Test Certificates       Marine / Shipping         Secial Test Certificate </td <td>•</td> <td></td> <td colspan="3"></td>	•				
type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely catalog of auxiliary contacts</li> </ul> 2x (0.5 2.5 mm <sup>2</sup> )         2x (0.5 1.5 m <sup>2</sup> )         2x (0.5 1.5	-				
<ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>Soley related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>protection class IP on the front according to IEC 60529</li> <li>fromunication/ Protocol</li> <li>protection class IP on the front according to IEC 60529</li> <li>fromunication/ Protocol</li> <li>product function bus communication</li> <li>product function control circuit interface protocol</li> <li>product function control circuit interface with IO link</li> <li>No</li> <li>Confirmation</li> <li>Yes</li> <li>product function control circuit interface with IO link</li> <li>No</li> <li>Confirmation</li> <li>Yes</li> <li>product function control circuit interface protocol</li> <li>protocol is apported AS-Interface protocol</li> <li>No</li> <li>Confirmation</li> <li>Yes</li> <li>protocol is apported AS-Interface protocol</li> <li>No</li> <li>Confirmation</li> <li>Yes</li> <li>Social Test Certific</li> <li>ates Test Certific<!--</td--><td></td><td></td><td>1X (20 12)</td><td></td><td></td></li></ul>			1X (20 12)		
	<i></i>	55-500110115			
	-		$2x (0.5 - 2.5 \text{ mm}^2)$		
		nd processing			
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• with low demand rate according to SN 31920     40 %       • with high demand rate according to SN 31920     75 %       failure rate [FIT] with low demand rate according to SN 31920     100 FIT       11 value for proof test interval or service life according to IEC 60529     100 FIT       Dic 61508     IP20       protection class IP on the front according to IEC 60529     IP20       communication     Yes       protection control circuit interval or service life according to IEC 60529     Inger-safe, for vertical contact from the front       Communication     Yes       protection control circuit intervale protocol     No       protection control circuit interface protocol     No       protection control circuit interface with IO link     No       Certificates/ approvals     Declaration of Conformity       Certificates/ approvals     Image: Secial Test Certific: ates/Test Certific: ates/Test Report       ate     Type Test Certific: ates/Test Report       ate     Type Test Certific: ates/Test Report       ate     Special Test Certific: ates/Test Report       ate     Sige: Confirmation       Marine / Shipping     other       Dangerous Good		ording to SN 31920	1 000 000		
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IEC 61508       Protection class IP on the front according to IEC       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         Certificates/ approvals       Declaration of Conformity         Certificates/ approvals       Declaration of Conformity         Special Test Certificates       Marine / Shipping         Special Test Certificate:       Type Test Certificate: ates/Test Report         Marine / Shipping       other       Dangerous Good		e according to SN	100 FIT		
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Certificates/ approval       Declaration of Conformity         Confirmation			No		
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	Marine / Shipping		other	Dangerous Good	
	PRS RINA	RMRS	<u>Confirmation</u>		
Further information         Information- and Downloadcenter (Catalogs, Brochures,)         https://www.siemens.com/ic10         Industry Mall (Online ordering system)	Information- and Downloadcenter ( https://www.siemens.com/ic10	-	)		

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2315-8XB30-2FB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2315-8XB30-2FB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-2FB4

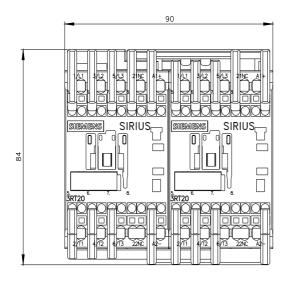
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2315-8XB30-2FB4&lang=en

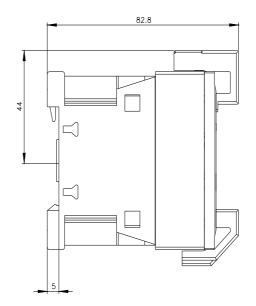
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-2FB4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-2FB4&objecttype=14&gridview=view1





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