## **SIEMENS**

## Data sheet 3RA2316-8XB30-1BB4

	reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, screw terminal, electrical and mechanical interlock		
product brand name	SIRIUS		
product designation	Reversing contactor assembly		
product type designation	3RA23		
manufacturer's article number	010720		
1 of the supplied contactor	3PT2016 1PR42		
2 of the supplied contactor	3RT2016-1BB42		
of the supplied RH assembly kit	<u>3RT2016-1BB42</u> 3RA2913-2AA1		
General technical data	<u>3KA2913-2AA1</u>		
size of contactor	\$00		
	Yes		
product extension auxiliary switch	res		
shock resistance at rectangular impulse	0.75 / 5 355 / 4.05 / 4.0 355		
• 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	40 5 15 15 10 2 0 0 1 40 10 2		
• at AC	10,5g / 5 ms, 6,6g / 10 ms		
• at DC	10,5g / 5 ms, 6,6g / 10 ms		
mechanical service life (operating cycles)	40.000.000		
of contactor typical	10 000 000		
of the contactor with added auxiliary switch block typical	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			
<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			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V		
operational current			
• at AC-3			
— at 400 V rated value	9 A		
— at 500 V rated value	7.7 A		
— at 690 V rated value	6.7 A		
• at AC-3e			
— at 400 V rated value	9 A		
— at 500 V rated value	7.7 A		
— at 690 V rated value	6.7 A		
operating power			
• at AC-3			
— at 400 V rated value	4 kW		
— at 500 V rated value	4 kW		
— at 690 V rated value	5.5 kW		
• at AC-3e			
— at 400 V rated value	4 kW		
— at 690 V rated value	5.5 kW		
at AC-4 at 400 V rated value	4 kW		
€ at AO-7 at 700 v Tateu value	TAVV		

operating frequency			
• at AC-3 maximum	750 1/h		
• at AC-3e maximum	750 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	DC		
control supply voltage 1			
at DC rated value	24 V		
closing power of magnet coil at DC	4 W		
holding power of magnet coil at DC	4 W		
Auxiliary circuit			
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	7.6 A		
• at 600 V rated value	9 A		
yielded mechanical performance [hp] for 3-phase AC motor			
at 200/208 V rated value	2 hp		
• at 220/230 V rated value	3 hp		
• at 460/480 V rated value	5 hp		
• at 575/600 V rated value	7.5 hp		
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A		
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A		
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
	backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail		
ractioning interior	Solew and shap on mountaing one so him buy rain		
height	68 mm		
	68 mm 90 mm		
height	68 mm		
height width depth required spacing	68 mm 90 mm		
height width depth required spacing • with side-by-side mounting	68 mm 90 mm 73 mm		
height width depth required spacing  • with side-by-side mounting — forwards	68 mm 90 mm 73 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards	68 mm 90 mm 73 mm 6 mm 0 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — downwards	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	68 mm 90 mm 73 mm 6 mm 6 mm 6 mm 6 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — upwards — upwards — at the side	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — at the side - at the side	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at the side - backwards — at the side — downwards — at the side — downwards	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — backwards — upwards — at the side — downwards — at the side — for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6		
height  width  depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — backwards  — upwards  — to rewards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards	68 mm 90 mm 73 mm 6 mm		
height width depth  required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — upwards — backwards — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards  • for live parts — backwards	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards  • to relive parts — forwards — backwards — upwards	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — backwards — upwards — downwards	68 mm 90 mm 73 mm 6 mm		
height width depth  required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • at the side — downwards  • for live parts — forwards — backwards — upwards — downwards  • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — at the side	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6		
height  width  depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — backwards  — upwards  — of the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — downwards  — at the side  Connections/ Terminals	68 mm 90 mm 73 mm 6 mm		
height width depth  required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • at the side — downwards  • for live parts — forwards — backwards — upwards — downwards  • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — at the side	68 mm 90 mm 73 mm 6 mm		
height width depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — at the side  — downwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — the side  Connections/ Terminals  type of electrical connection  • for main current circuit	68 mm 90 mm 73 mm 6 mm		
height  width  depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection	68 mm 90 mm 73 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6		
height  width  depth  required spacing  • with side-by-side mounting  — forwards  — backwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — backwards  — upwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — backwards  — upwards  — backwards  — upwards  — the side  Connections/ Terminals  type of electrical connection  • for main current circuit	68 mm 90 mm 73 mm 6 mm		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards  • for live parts — forwards — backwards — upwards — at the side — downwards — the side — downwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6		
height width depth required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side  • for grounded parts — forwards — backwards — upwards — at the side — downwards  • at the side — downwards  • for live parts — forwards — backwards — upwards — at the side — downwards  • for live parts — forwards — backwards — upwards — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	68 mm 90 mm 73 mm  6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6		

General Product Approval		Declaration of Conformity	
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		
protection class IP on the front according to IEC 60529	IP20		
T1 value for proof test interval or service life according to IEC 61508	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			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for auxiliary contacts			
type of connectable conductor cross-sections			
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)		

Confirmation









**Test Certificates** 

Marine / Shipping

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report









Marine / Shipping

other Confirmation

Vibration and Shock

Railway

**Transport Information** 

**Dangerous Good** 







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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2316-8XB30-1BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XB30-1BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1BB4

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2316-8XB30-1BB4&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1BB4/char

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

3RA2316-8XB30-1BB4&objecttype=14&gridview=view1

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