SIEMENS

Data sheet 3RA2317-8XB11-1BB4

	reversing contactor assembly, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, screw terminal, without NC contact locking with 1 NO contact
product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
1 of the supplied contactor	3RT2017-1BB42
2 of the supplied contactor	3RT2017-1BB42
of the supplied RH assembly kit	3RA2913-2AA1
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
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	
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	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 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	5.5 kW
• at AC-3e	
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-4 at 400 V rated value	4 kW

poperating frequency		
and AG General maximum Dipse of voltage of the control supply voltage Control supply voltage 1 **ID Control value **ID Contro	operating frequency	
Control supply voltage 1	• at AC-3 maximum	750 1/h
Spread voltage of the control supply voltage Coloning power of magnet coil at DC	• at AC-3e maximum	750 1/h
control supply voltage 1 • a PD Caled value closing power of magnet coil at DC holding power of magnet coil at DC A 19// holding power of magnet coil at DC A 29// Noutring vicinity number of NC contacts for auxiliary contacts • per direction of rotation • Instantaneous contact O 0 • Instantaneous contact • per direction of rotation • Instantaneous contact • Instantaneous contact • per direction of rotation • Instantaneous contact • Insta	Control circuit/ Control	
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Contact for any and coll at DC	control supply voltage 1	
Auxiliary circuit Number of NC contacts for auxillary contacts Per direction of rotation 0	at DC rated value	24 V
Assiliary circuit number of NC contacts for auxiliary contacts	closing power of magnet coil at DC	4 W
number of NC contacts for auxiliary contacts • per direction of rotation • instantaneous contact 2 contact reliability of auxiliary contacts • per direction of rotation • instantaneous contact 2 contact reliability of auxiliary contacts * 1 error per 100 million operating cycles **ULGSA ratings **Tuil-load curren (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 800 V rated value • at 200208 V rated value • at 575600 V rated value • at 575600 V rated value • or at 575600 V rated value • or at 575600 V rated value • or for short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required • with type of assignment 2 required • or short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protect	holding power of magnet coil at DC	4 W
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Pep direction of rotation Instantaneous contact Per direction of rotation Instantaneous contact Instantaneous contacts Instantaneous contact Inst	number of NC contacts for auxiliary contacts	
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• instantameous contact 2 1 error per 100 million operating cycles	•	1
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full-load current (FLA) for 3-phase AC motor at 480 V rated value at 800 V rated value 11 A		. ,
at 480 V rated value if 500 V rated value yielded mechanical performance (hyl for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 275/500 V rated value at 575/500 V rated value contact rating of auxillary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit - with type of coordination 1 required for short-circuit protection of the auxillary switch required fastening position ##1500** rotation possible on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward sp +/- 180°* rotation possible on vertical mounting surface; can be titled forward and backward sp +/- 22.5° on vertical mounting surface; can be titled forward and backward sp +/- 22.5° on vertical mounting surface; can be titled forward and backward sp +/- 22.5° on vertical mounting surface; can be titled forward and backward sp +/- 22.5° on vertical mounting surface; can be titled forward and backward sp +/- 22.5° on vertical mounting surface; can be titled forward and backward sp +/- 22.5° on vertical mount		
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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: 50 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A fuse gG: 10 A Installation/ mounting/ dimensions with type of assignment 2 required fuse gG: 10 A Installation/ mounting/ dimensions with type position with ty		·
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- with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * fuse gg: 10 A * worth side on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward		
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• for short-circuit protection of the auxiliary switch required 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; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward sport mounting onto 35 mm DIN rail height 68 mm required spacing • with side-by-side mounting • with side-by-side mounting • forwards — backwards — on mm • formards — at the side — downwards — on mm • for grounded parts — forwards — at the side — downwards — on mm • for live parts — forwards — backwards — on mm • for live parts — forwards — backwards — on mm — upwards — downwards — on mm • formards — downwards — downwards — downwards — downwards — downwards — at the side — downwards — at the side — on mm • formards — formards — formards — forwards — formards — formar	•	
Installation/ mounting/ dimensions mounting position backward by +/- 22.5° 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 height 68 mm width 90 mm depth 73 mm required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — for younded parts — obackwards — upwards — at the side — downwards — o hackwards — o hm • for wards — o hackwards — o hm • for ilve parts — for live parts — forwards — backwards — backwards — downwards — at the side — downwards — o mm • for live parts — forwards — backwards — backwards — o mm • for live parts — forwards — downwards — downwards — backwards — backwards — downwards — forwards — backwards — downwards — form — forwards — forwards — forwards — forwards — formards — forwards — forwards — forwards — formards — formards — formards — formards — forwards — formards — for		
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 height 68 mm width 90 mm depth 73 mm required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — for grounded parts — forwards — backwards — upwards — 6 mm for grounded parts — forwards — 6 mm for grounded parts — forwards — at the side — 6 mm for mm for mm for ilve parts — forwards — forwards — formards — downwards — downwards — formards — downwards — formards — formards — downwards — formards — fo		
fastening method screw and snap-on mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail height 68 mm width 90 mm depth 73 mm required spacing • with side-by-side mounting — forwards 6 mm — backwards 0 mm — downwards 6 mm — at the side 6 mm • for grounded parts — forwards 6 mm — backwards 0 mm • for wards 6 mm • for grounded parts — forwards 6 mm — backwards 6 mm — backwards 6 mm — owwards 6 mm — upwards 6 mm — owwards 6 mm — at the side 6 mm — owwards 6 mm — at the side 6 mm • for live parts — forwards 6 mm • for live parts — forwards 6 mm — backwards 0 mm • for live parts — forwards 6 mm — backwards 0 mm — upwards 6 mm — downwards 6 mm — downwards 6 mm — at the side 6 mm — downwards 6 mm — at the side 6 mm — downwards 6 mm — at the side 6 mm		+/-180° rotation possible on vertical mounting surface; can be tilted forward and
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width 90 mm depth 73 mm required spacing	fastening method	screw and snap-on mounting onto 35 mm DIN rail
depth 73 mm required spacing • with side-by-side mounting — forwards — backwards — upwards — upwards — downwards — at the side — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards • 6 mm — downwards • 6 mm • for live parts — backwards — upwards — upwards — downwards — downwards — downwards — at the side — downwards — downwards — downwards — at the side — downwards — downwa	height	68 mm
required spacing ● 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 6 mm — forwards 6 mm — backwards 0 mm — upwards 6 mm — downwards 6 mm ● for live parts 6 mm — backwards 0 mm — upwards 6 mm — downwards 6 mm — downwards 6 mm — downwards 6 mm — at the side 6 mm Connections/ Terminals	width	90 mm
with side-by-side mounting — forwards	depth	73 mm
forwards 6 mm backwards 0 mm upwards 6 mm downwards 6 mm at the side 6 mm at the side 6 mm for grounded parts forwards 6 mm backwards 0 mm upwards 6 mm at the side 6 mm at the side 6 mm at the side 6 mm downwards 6 mm for live parts forwards 6 mm backwards 0 mm upwards 6 mm backwards 0 mm upwards 6 mm backwards 0 mm upwards 6 mm at the side 6 mm downwards 6 mm at the side 6 mm downwards 6 mm at the side 6 mm at the side 6 mm	required spacing	
backwards 0 mm upwards 6 mm downwards 6 mm at the side 6 mm at the side 6 mm for grounded parts forwards 6 mm backwards 0 mm upwards 6 mm upwards 6 mm at the side 6 mm downwards 6 mm for live parts forwards 6 mm backwards 0 mm backwards 0 mm backwards 6 mm backwards 6 mm backwards 0 mm upwards 6 mm upwards 6 mm upwards 6 mm downwards 6 mm downwards 6 mm at the side 6 mm at the side 6 mm	with side-by-side mounting	
 — upwards — downwards — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards ● for live parts — forwards — forwards — form — downwards — form — downwards — form — backwards — backwards — upwards — downwards — form — backwards — downwards — form — at the side — form — forwards — form — backwards — form — at the side — form — forwards — forwards<!--</td--><td>— forwards</td><td>6 mm</td>	— forwards	6 mm
- downwards 6 mm - at the side 6 mm	— backwards	0 mm
- at the side • for grounded parts - forwards - backwards - upwards - at the side - downwards • for live parts - forwards - backwards - upwards - to mm - at the side - downwards • for live parts - forwards - backwards - upwards - upwards - upwards - downwards - at the side - downwards - downwards - at the side - connections/ Terminals	— upwards	6 mm
 for grounded parts forwards backwards upwards at the side downwards for live parts for lowards mm backwards upwards mm upwards mm upwards mm downwards mm at the side mm mm mm connections/ Terminals 	— downwards	6 mm
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 upwards 6 mm downwards 6 mm at the side 6 mm at the side 6 mm Connections/ Terminals	— at the side	6 mm
 backwards upwards at the side downwards for live parts forwards backwards upwards upwards downwards mm downwards at the side Connections/ Terminals 	 for grounded parts 	
 — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — downwards — downwards — at the side Connections/ Terminals 	— forwards	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	— backwards	0 mm
 — downwards ● for live parts — forwards — backwards — upwards — downwards — at the side Connections/ Terminals 	— upwards	6 mm
● for live parts — forwards 6 mm — backwards 0 mm — upwards 6 mm — downwards 6 mm — at the side 6 mm Connections/ Terminals	— at the side	6 mm
- forwards 6 mm - backwards 0 mm - upwards 6 mm - downwards 6 mm - at the side 6 mm Connections/ Terminals	— downwards	6 mm
 backwards upwards downwards at the side 6 mm 6 mm 6 mm Connections/ Terminals		
 upwards downwards at the side 6 mm 6 mm 6 mm Connections/ Terminals	• for live parts	
— downwards 6 mm — at the side 6 mm Connections/ Terminals	·	6 mm
— at the side 6 mm Connections/ Terminals	— forwards	
Connections/ Terminals	— forwards — backwards	0 mm
	forwardsbackwardsupwards	0 mm 6 mm
	forwardsbackwardsupwardsdownwards	0 mm 6 mm 6 mm
	— forwards — backwards — upwards — downwards — at the side	0 mm 6 mm 6 mm

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
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 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
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	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	No



Certificates/ approvals

General Product Approval

Confirmation







Declaration of Conformity



Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other

Railway

Dangerous Good







Confirmation

Vibration and Shock

Transport Information

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=3RA2317-8XB11-1BB4

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2317-8XB11-1BB4}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2317-8XB11-1BB4

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RA2317-8XB11-1BB4&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2317-8XB11-1BB4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2317-8XB11-1BB4&objecttype=14&gridview=view1

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