SIEMENS

Data sheet

3RA2346-8XB30-1NB3



reversing contactor assembly, AC-3e/AC-3, 95 A, 45 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

product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
 1 of the supplied contactor 	<u>3RT2046-1NB30</u>
 2 of the supplied contactor 	<u>3RT2046-1NB30</u>
 of the supplied RS assembly kit 	<u>3RA2943-2AA1</u>
General technical data	
size of contactor	S3
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 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)	03/01/2017
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 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
• at AC-3e	
	95 A
— at 400 V rated value	A CG

— at 500 V rated value	95 A
— at 690 V rated value	78 A
operating power	
• at AC-3	
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
• at AC-3e	
- at 400 V rated value	45 kW
— at 690 V rated value	75 kW
at AC-4 at 400 V rated value	45 kW
operating frequency	
• at AC-3 maximum	850 1/h
• at AC-3e maximum	850 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	20 33 V
• at 60 Hz	20 33 V
control supply voltage 1	2000 V
• at DC	20 22.1/
- 4750	20 33 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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	163 VA
• at 60 Hz	163 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	3.1 VA
• at 60 Hz	3.1 VA
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	1.8 W
	1.0 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
number of NC contacts for auxiliary contactsper direction of rotation	0
-	0
• per direction of rotation	0
per direction of rotation number of NO contacts for auxiliary contacts	
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation 	1
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact 	1
per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings	1
• per direction of rotation number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor	1 2
per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	1 2 96 A
• per direction of rotation number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor	1 2 96 A 77 A
• per direction of rotation number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	1 2 96 A 77 A 30 hp
• per direction of rotation number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value	1 2 96 A 77 A 30 hp 30 hp
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 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection 	1 2 96 A 77 A 30 hp 30 hp 75 hp 75 hp
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL 	1 2 96 A 77 A 30 hp 30 hp 75 hp 75 hp
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection 	1 2 96 A 77 A 30 hp 30 hp 75 hp 75 hp
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 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 	1 2 96 A 77 A 30 hp 30 hp 75 hp 75 hp 75 hp A600 / Q600
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary 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 	1 2 96 A 77 A 30 hp 30 hp 30 hp 75 hp 75 hp A600 / Q600
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 220/208 V rated value at 220/208 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary 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 with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	1 2 96 A 77 A 30 hp 30 hp 30 hp 75 hp 75 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 355 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary 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 with type of assignment 2 required 	1 2 96 A 77 A 30 hp 30 hp 30 hp 75 hp 75 hp 75 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 355 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and
 per direction of rotation number of NO contacts for auxiliary contacts per direction of rotation instantaneous contact UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value of short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	1 2 96 A 77 A 30 hp 30 hp 30 hp 75 hp 75 hp 75 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 355 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface;
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 solid or stranded solid or stranded finely stranded with core end processing finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 50 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) afety related data proportion of dangerous failures with low demand rate according to SN 31920 with low demand rate according to SN 31920 73 % 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 protection class uported AS-Interface protocol protocol is supported AS-Inte	width	150 mm	
 with side by-side mounting forwards 0 mm backwards 0 mm upwards 0 mm upwards 0 mm upwards 0 mm upwards 0 mm dewnwards 0 mm at the side 0 mm at the side 0 mm backwards 0 mm backwards 0 mm upwards 0 mm backwards 0 mm upwards 0 mm upwards 0 mm downwards downwards downwards downwards downwards downward	depth	152 mm	
- forwards 0 mm - upwards 0 mm - upwards 10 mm - domwards 10 mm - at the side 10 mm - backwards 0 mm - domwards 10 mm - domset. screw-type terminals screw-type terminals screw-typ	required spacing		
- backwards 0 mm - upwards 10 mm - downwards 10 mm - of grounds parts 0 mm - for grounds parts 0 mm - upwards 0 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for usia (upwards) 10 mm - downwards 10 mm - downwards 10 mm - for usia (upwards) 0 mm - for usia (upwards) 0 mm - for usia (upwards) 5 crew-type terminal			
- upwards 10 mm - downwards 10 mm - downwards 10 mm - of orwards 0 mm - backwards 0 mm - upwards 10 mm - downwards 10 mm - at the aide 10 mm - for awalay ad control circuit screw-type terminals <td>— forwards</td> <td>10 mm</td> <td></td>	— forwards	10 mm	
- downwards 10 mm - at the side 10 mm - at the side 10 mm - forwards 10 mm - forwards 0 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - backwards 0 mm - backwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at side connection screw-type terminals store of auxiliary and control circuit screw-type terminals store of auxiliary contacts Screw-type terminals solid or stranded 2x (2 5 35 mm ²), 1x (10 50 mm ²) Ype of connectable conductor cross-sections - • for auxiliar	— backwards	0 mm	
	•		
• for grounded parts 0 - forwards 0 - beckwards 0 - upwards 10 - downwards 10 - beckwards 0 - beckwards 0 - downwards 10 - downwards 2	— downwards	10 mm	
- forwards 0 mm - backwards 0 mm - uywards 0 mm - at the side 10 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - for live parts 0 mm - backwards 0 mm - uywards 10 mm - backwards 0 mm - uywards 10 mm - downwards 10 mm - downwards </td <td></td> <td>10 mm</td> <td></td>		10 mm	
- a the side 10 mm - downwards 10 mm - forvards 10 mm - forvards 10 mm - backwards 0 mm - backwards 0 mm - downwards 10 mm - a the side 10 mm - at the side 10 mm - for auxiliary contacts screw-type terminals - for survitariad 2x (25 16 mm ³), 1x (10 50 mm ³) - for auxiliary contacts - solid or stranded - s	— backwards		
• for live parts - forwards 10 mm - forwards 0 mm - backwards 0 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm onnections/ Terminals screw-type terminals for main current circuit screw-type terminals of magnet coll Screw-type terminals solid or stranded 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) solid or stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) e for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.7 5 2.5 mm²) e for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.7 5 2.5 mm²) e for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.7 5 2.5 mm²) e for wWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.7 5 2.5 mm²) e for y Stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.7 5 2.5 mm²) e for y WG cables for auxiliary contacts 2x (2.0 1.5 mm²), 2x (0	— at the side	10 mm	
- forwards 0 mm - backwards 0 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm onnections/Terminals 10 mm fype of electrical connection screw-type terminals or a uxiliary and control circuit screw-type terminals of a uxiliary contacts Screw-type terminals of angent coll screw-type terminals type of electrical connection screw-type terminals • at the side 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) • for auxiliary contacts 2x (2.5 35 mm²), 1x (2.5 50 mm²) • for auxiliary contacts 2x (2.5 15 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (2.5 15 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (2.0 15 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (2.0 16, 2x (18 14) • for auxiliary contacts 2x (2.0 16, 2x (18 14) • for auxiliary contacts 2x (2.0 15 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (2.0 15 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (2.0 15 mm²), 2x (0.75 2.	— downwards	10 mm	
	 for live parts 		
	— forwards	10 mm	
- downwards 10 mm - a the side 10 mm onnections/Terminals screw-type terminals type of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • a to main current circuit screw-type terminals • of auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts • oild or stranded • oild or stranded 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) • niely stranded with core end processing 2x (0.5 1.5 mm²), 1x (10 50 mm²) • for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) screw-type terminals • for AWG cables for auxiliary contacts 2x (2.0 16), 2x (18 14) screw-type terminals • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) screw-type terminals • for AWG cables for auxiliary contacts 2x (2.0 16), 2x (18 14) screw-type terminals • for AWG cables for auxiliary contacts 2x (2.0 15 mm²), 2x (0.75 2.5 mm²) <t< td=""><td>— backwards</td><td>0 mm</td><td></td></t<>	— backwards	0 mm	
	— upwards	10 mm	
onnections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • actontactor for auxiliary contacts • actontactor for auxiliary contacts • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • solid or stranded • solid or stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) • finely stranded with core end processing 2x (10 35 mm²), 1x (10 50 mm²) • for auxiliary contacts - of au	— downwards	10 mm	
type of electrical connection for main current circuit for auxiliary and control circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coli Screw-type terminals Screw-type terminals<td></td><td>10 mm</td><td></td>		10 mm	
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type of connectable conductor cross-sections for auxiliary contacts solid or stranded solid or stranded with core end processing solid or stranded stra	 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
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afety related data proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % T1 value for proof test interval or service life according to IEC 60529 20 a protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 product function bus communication Yes product function control circuit interface protocol No product function control circuit interface with IO link No ertificates/ approvals Declaration of Conformity Test Certificates	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
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General Product Approval Declaration of Conformity Test Certificates	protocol is supported AS-Interface protocol	No	
General Product Approval Declaration of Conformity Test Certificates	product function control circuit interface with IO link	No	
	ertificates/ approvals		
	General Product Approval	Declaration of Conformity	Test Certificates

Marine / Shipping













other

Dangerous Good

Confirmation 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=3RA2346-8XB30-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2346-8XB30-1NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2346-8XB30-1NB3

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

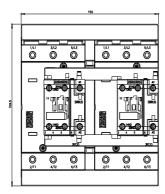
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2346-8XB30-1NB3&lang=en

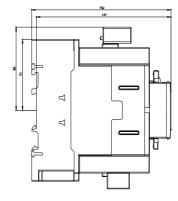
Characteristic: Tripping characteristics, I²t, Let-through current

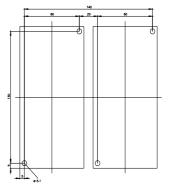
https://support.industry.siemens.com/cs/ww/en/ps/3RA2346-8XB30-1NB3/char

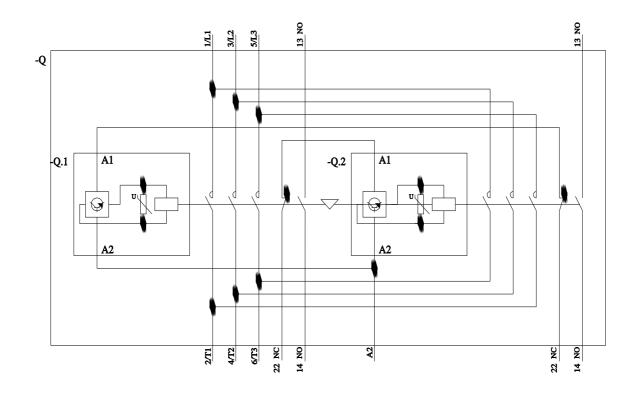
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2346-8XB30-1NB3&objecttype=14&gridview=view1









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