## SIEMENS

## Data sheet

## 3RA2316-8XB30-2AP0



reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, spring-loaded terminal, electrical and mechanical interlock

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>3RT2016-2AP02</u>
<ul> <li>2 of the supplied contactor</li> </ul>	<u>3RT2016-2AP02</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 (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	
<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
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	AC
control supply voltage 1 at AC	
at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
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	
<ul> <li>at 480 V rated value</li> </ul>	7.6 A
<ul> <li>at 600 V rated value</li> </ul>	9 A
yielded mechanical performance [hp] for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	2 hp
• at 220/230 V rated value	3 hp
<ul> <li>at 460/480 V rated value</li> </ul>	5 hp
<ul> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul>	5 hp 7.5 hp
• at 575/600 V rated value	7.5 hp
• at 575/600 V rated value contact rating of auxiliary contacts according to UL	7.5 hp
at 575/600 V rated value     contact rating of auxiliary contacts according to UL     Short-circuit protection	7.5 hp
at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	7.5 hp
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	7.5 hp A600 / Q600
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	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
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	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
t 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	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and
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              Installation/ mounting/ dimensions              mounting position	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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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t 575/600 V rated value     contact rating of auxiliary contacts according to UL     Short-circuit protection     design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> <li>Installation/ mounting/ dimensions     <ul> <li>fastening method</li> <li>height</li> </ul> </li>	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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 screw and snap-on mounting onto 35 mm DIN rail 84 mm
t 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             Installation/ mounting/ dimensions             mounting position             fastening method             height             width	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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 screw and snap-on mounting onto 35 mm DIN rail 84 mm 90 mm
t 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         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	7.5 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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 screw and snap-on mounting onto 35 mm DIN rail 84 mm
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— downwards	6 mm
— at the side	6 mm
<ul> <li>for grounded parts</li> </ul>	
— 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
— downwards	6 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
<ul> <li>of magnet coil</li> </ul>	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
solid	2x (0.5 4 mm²)
solid     solid	2x (0.5 4 mm <sup>2</sup> )
finely stranded with core end processing	$2x (0.5 2.5 mm^2)$
finely stranded without core end processing	2x (0.5 2.5 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
for AWG cables for auxiliary contacts Safety related data	2x (20 14)
	2x (20 14) 1 000 000
Safety related data B10 value with high demand rate according to SN 31920	
Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	
Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	1 000 000 40 %
Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	1 000 000 40 % 75 %
Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920	1 000 000 40 % 75 % 100 FIT
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Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529	1 000 000 40 % 75 % 100 FIT 20 a IP20
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Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         protocol is supported AS-Interface protocol         product function control circuit interface with IO link         Certificates/ approvals         General Product Approval         Image: Confirmation         Vic         Vic         Marine / Shipp	1 000 000 40 % 75 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front Yes No No Declaration of Conformity ERE EG-Konf.
Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         protocol is supported AS-Interface protocol         product function control circuit interface with IO link         Certificates/ approvals         General Product Approval         Image: Confirmation         View         View         View         View         View         View         Seciel Test Certific-         Special Test Certific-	1 000 000 40 % 75 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front Yes No No Declaration of Conformity Declaration of Conformity CERE EG-Konf. UKG FG-Konf.
Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         protocol is supported AS-Interface protocol         product function control circuit interface with IO link         Certificates/ approvals         General Product Approval         Image: Confirmation         View         View         View         View         View         View         Seciel Test Certific-         Special Test Certific-	1 000 000         40 %         75 %         100 FIT         20 a         IP20         finger-safe, for vertical contact from the front         Yes         No         No         No         No         No         Declaration of Conformity         EEEE EG-Konf.         UCK         EGEW         Ding
Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 60529         touch protection on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         protocol is supported AS-Interface protocol         product function control circuit interface with IO link         Certificates/ approvals         General Product Approval         Image: Confirmation         Test Certificates         Marine / Shipp         Type Test Certific- ates/Test Report         Special Test Certific- ate	1 000 000 40 % 75 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front Yes No No Declaration of Conformity Declaration of Conformity CERE EG-Konf. UKG Dig

7/18/2023

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**Confirmation** 

Vibration and Shock

**Further information** 

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

 $\underline{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}$ 

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=3RA2316-8XB30-2AP0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en\&mlfb=3RA2316-8XB30-2AP0$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AP0

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

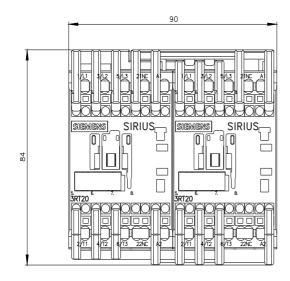
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2316-8XB30-2AP0&lang=en

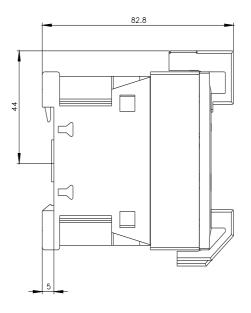
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

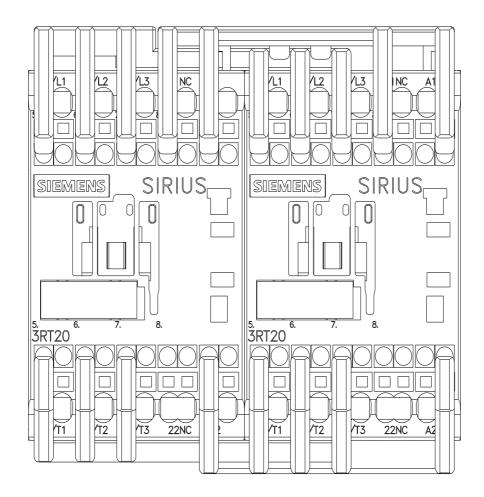
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AP0/char

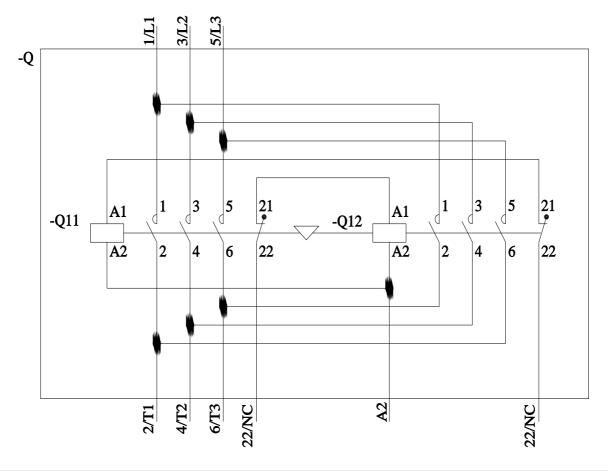
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XB30-2AP0&objecttype=14&gridview=view1









## last modified:

11/21/2022 🖸