# SIEMENS

### Data sheet

## 3RA2316-8XE30-1BB4

reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, screw terminal, electrical and mechanical interlock, with voltage tap for 3RA27



product brand name	SIRIUS			
product designation	Reversing contactor assembly			
product type designation	3RA23			
manufacturer's article number				
• 1 of the supplied contactor	<u>3RT2016-1BB42-0CC0</u>			
• 2 of the supplied contactor	<u>3RT2016-1BB42</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			
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	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	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				
number of NC contacts for auxiliary contacts				
<ul> <li>per direction of rotation</li> </ul>	1			
number of NO contacts for auxiliary contacts				
<ul> <li>per direction of rotation</li> </ul>	0			
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				
<ul> <li>with type of coordination 1 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A			
- with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and			
mounting position	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	6 mm			
— backwards	0 mm			
— upwards	6 mm			
— downwards	6 mm			
— at the side	6 mm			
for grounded parts				
— forwards	6 mm			
— backwards	0 mm			
— upwards	6 mm			
— at the side	6 mm			

		0					
— downwards		6 mm	6 mm				
• for live parts		0					
— forwards			6 mm				
— backwards			0 mm				
— upwards			6 mm				
— downwards			6 mm				
— at the side		6 mm	6 mm				
Connections/ Terminals							
type of electrical connection							
for main current circuit			screw-type terminals				
<ul> <li>for auxiliary and control circ</li> </ul>			screw-type terminals				
<ul> <li>at contactor for auxiliary con</li> </ul>	ntacts		Screw-type terminals				
of magnet coil		Screw	Screw-type terminals				
type of connectable conductor cro	ss-sections for main contacts	o (o )					
• 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 en		2x (0.5	5 1.5 mm²), 2x (0.75 .	2.5 mm²)			
type of connectable conductor	cross-sections						
<ul> <li>for auxiliary contacts</li> </ul>							
— solid or stranded			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
— finely stranded with co			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
<ul> <li>for AWG cables for auxiliary</li> </ul>	y contacts	2x (20	16), 2x (18 14)				
Safety related data							
B10 value with high demand rate a	according to SN 31920	1 000	1 000 000				
proportion of dangerous failure							
<ul> <li>with low demand rate accor</li> </ul>	ding to SN 31920	40 %	40 %				
<ul> <li>with high demand rate accord</li> </ul>	ording to SN 31920	75 %	75 %				
failure rate [FIT] with low demand	rate according to SN 31920	100 FI	Т				
T1 value for proof test interval or s 61508	service life according to IEC	20 a	20 a				
protection class IP on the front	according to IEC 60529	IP20	IP20				
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front				
Communication/ Protocol							
product function bus communic	cation	Yes					
protocol is supported AS-Interface	protocol	No	No				
product function control circuit inte	erface with IO link	No	No				
Certificates/ approvals							
General Product Approval			Declaration of Conformity				
SP Con		)	EAC	CE EG-Konf.	UK CA		
C34	01			EG-KOIN.			
Test Certificates	Marine / Ship	ning					
root oor anoutoo	marmer onp	99					
<u>Type Test Certific-</u> <u>Special</u> ates/Test Report	Test Certific- ate				Llovd's Register		
			VERITAS				
Marine / Shipping			other	Railway	Dangerous Good		
0	-		Confirment	Million and Ol	Transment lists		
PRS		)	<u>Confirmation</u>	Vibration and Shock	Transport Information		
Further 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=3RA2316-8XE30-1BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XE30-1BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XE30-1BB4

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

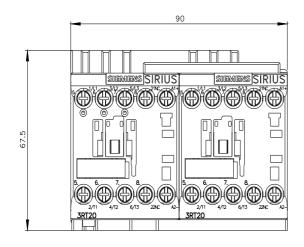
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2316-8XE30-1BB4&lang=en

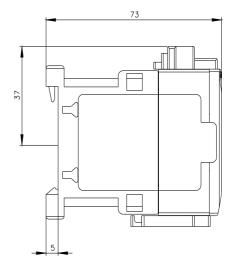
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

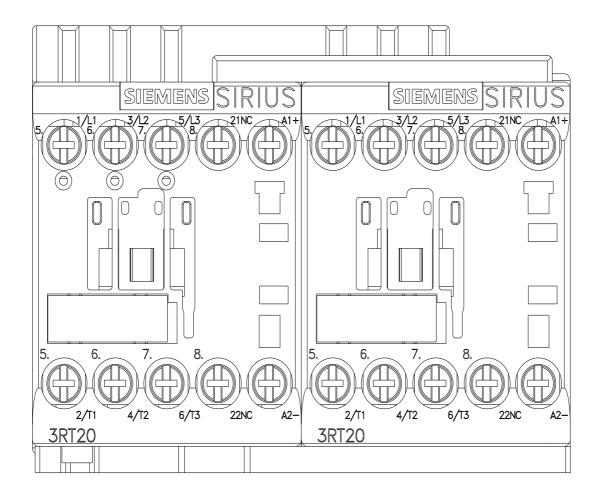
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XE30-1BB4/char

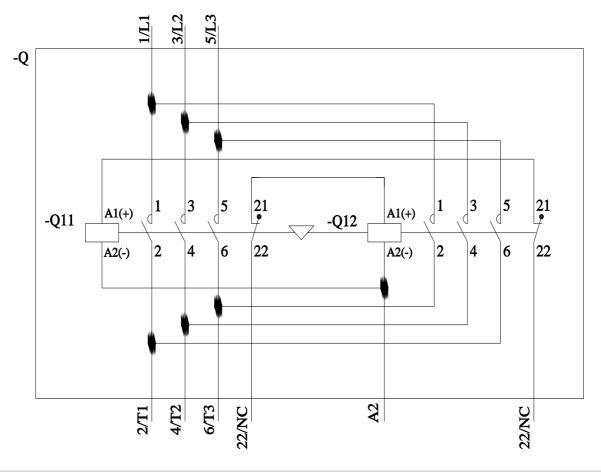
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XE30-1BB4&objecttype=14&gridview=view1









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