SIEMENS

Data sheet

3RA2315-8XE30-2BB4



reversing contactor assembly, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, spring-loaded 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>3RT2015-2BB42-0CC0</u>
• 2 of the supplied contactor	<u>3RT2015-2BB42</u>
 of the supplied RH assembly kit 	<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)	
 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 AC-3 — at 400 V rated value	7 A
	7 A 6 A
— at 400 V rated value	
— at 400 V rated value — at 500 V rated value	6 A

— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
operating power	
• at AC-3	0.144
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	0.1111
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
at AC-4 at 400 V rated value	3 kW
operating frequency	750.44
• 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	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	1.5 hp
• at 220/230 V rated value	2 hp
• at 460/480 V rated value	3 hp
• at 575/600 V rated value	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
height	84 mm
width	90 mm
depth	83 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
— downwards	6 mm
for live parts	
forwards	6 mm
	V IIIII
— backwards	0 mm

— upwards	6 mm				
— downwards	6 mm				
— at the side	6 mm				
Connections/ Terminals					
type of electrical connection					
for main current circuit	spring-loaded terminals				
 for auxiliary and control circuit 	spring-loaded terminals				
 at contactor for auxiliary contacts 	Spring-type terminals				
• of magnet coil	Spring-type terminals				
type of connectable conductor cross-sections for main contacts	1 0 91				
• solid	2x (0.5 4 mm²)				
 solid or stranded 	2x (0,5 4 mm²)				
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)				
 finely stranded without core end processing 	2x (0.5 2.5 mm ²)				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid or stranded	2x (0.5 2.5 mm²)				
- finely stranded with core end processing	2x (0.5 1.5 mm ²)				
 finely stranded without core end processing 	2x (0.5 1.5 mm²)				
 for AWG cables for auxiliary contacts 	2x (20 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 fro	m 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		Declaration of Confor	mity		
			•		
	EHC	CE EG-Konf.	UK CA		
Confirmation UL Confirmation		CE EG-Konf.	UK CA		
		EG-Konf.	Llovers Kegister Lits		
Test Certificates Marine / Shipp Special Test Certific- Type Test Certific-	bing B U R E A U V E R I TA S	Ĵ.Å dnv	Hovd's Register		
Test Certificates Marine / Shipp Special Test Certific- ate Type Test Certific- ates/Test Report	bing BUREAU VERITAS		Hoyd's Register uis		
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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=3RA2315-8XE30-2BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2315-8XE30-2BB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XE30-2BB4

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

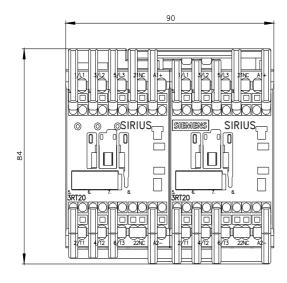
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2315-8XE30-2BB4&lang=en

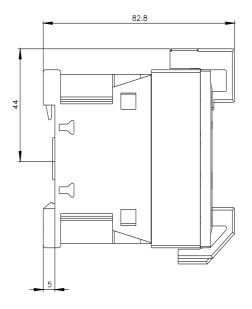
Characteristic: Tripping characteristics, I2t, Let-through current

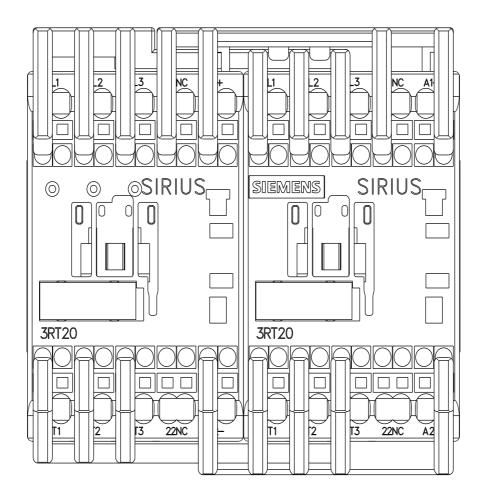
https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XE30-2BB4/char

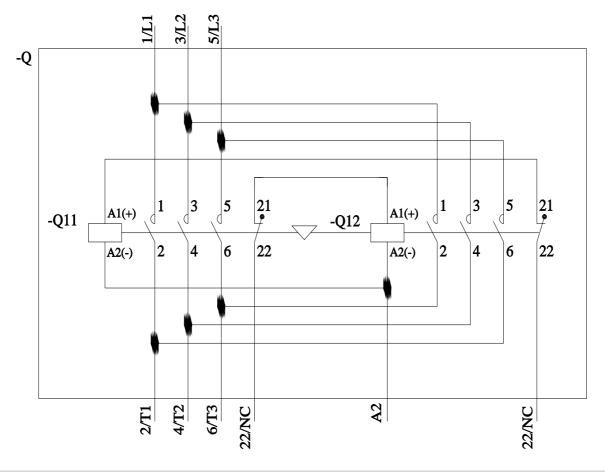
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XE30-2BB4&objecttype=14&gridview=view1









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