SIEMENS

Data sheet

3RA2315-8XB30-2AK6

Reversing contactor assembly AC-3, 3 kW/400 V 110 V AC 50 Hz/120 V 60 Hz, 3-pole Size S00, Spring-type terminal electrical and mechanical interlock



Product brand name	SIRIUS
Product designation	Reversing contactor assembly
Product type designation	3RA23
Manufacturer's article number	
 1 of the supplied contactor 	3RT2015-2AK62
 2 of the supplied contactor 	3RT2015-2AK62
 of the supplied RH assembly kit 	3RA2913-2AA2

General technical data	
Size of contactor	S00
Product extension	
Auxiliary switch	Yes
Insulation voltage	
 with degree of pollution 3 at AC rated value 	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Shock resistance	9.8g / 5 ms and 5.9g / 10 ms
Shock resistance at rectangular impulse	

0.7 /5 /0.7 /0
6,7g / 5 ms, 4,2g / 10 ms
6,7g / 5 ms, 4,2g / 10 ms
10,5g / 5 ms, 6,6g / 10 ms
10,5g / 5 ms, 6,6g / 10 ms
10 000 000
10 000 000
Q
2 000 m
-25 +60 °C
-55 +80 °C
3
3
0
690 V
18 A
18 A 16 A
16 A
16 A
16 A 7 A
16 A 7 A
16 A 7 A
16 A 7 A 7 A
16 A 7 A 7 A
16 A 7 A 7 A
16 A 7 A 7 A 15 A 1.5 A
16 A 7 A 7 A 15 A 1.5 A
16 A 7 A 7 A 15 A 1.5 A

Operating current

• at 1 current path at DC-3 at DC-5

— at 24 V rated value	15 A
— at 110 V rated value	0.1 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
Operating power	
• at AC-2 at 400 V rated value	3 kW
• at AC-3	
— at 400 V rated value	3 kW
— at 500 V rated value	3.5 kW
— at 690 V rated value	4 kW
• at AC-4 at 400 V rated value	3 kW
No-load switching frequency	1 500 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 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	110 V
• at 60 Hz rated value	120 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 V·A
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 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.25

Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at AC-15	
• at 230 V	6 A
● at 400 V	3 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	10 A
● at 60 V	2 A
• at 110 V	1 A
• at 220 V	0.3 A
Contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
11 /22 4 /:	

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	4.8 A
• at 600 V rated value	6.1 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for three-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

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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

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

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	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting 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
— 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 current circuit 	spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
 single or multi-stranded 	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end 	2x (0.5 2.5 mm²)
processing	
 at AWG conductors for main contacts 	1x (20 12)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— single or multi-stranded	2x (0,5 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end 	2x (0.5 1.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	2x (20 14)

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	

• with low demand rate acc. to SN 31920	40 %
 with high demand rate acc. to SN 31920 	75 %
Failure rate [FIT]	
• with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y

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	Declaration of Conformity		
(SP	(UL)	FAL	CE	Miscellaneous	Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certificate







EG-Konf.





Marine / Shipping

other

Railway





Confirmation

Vibration and Shock

Further information

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=3RA2315-8XB30-2AK6

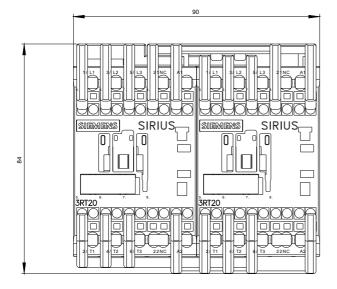
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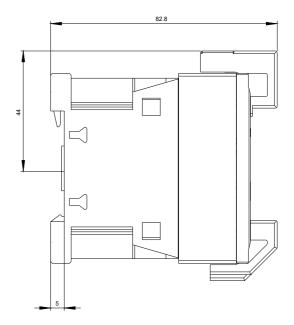
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2315-}8XB30-2AK6$

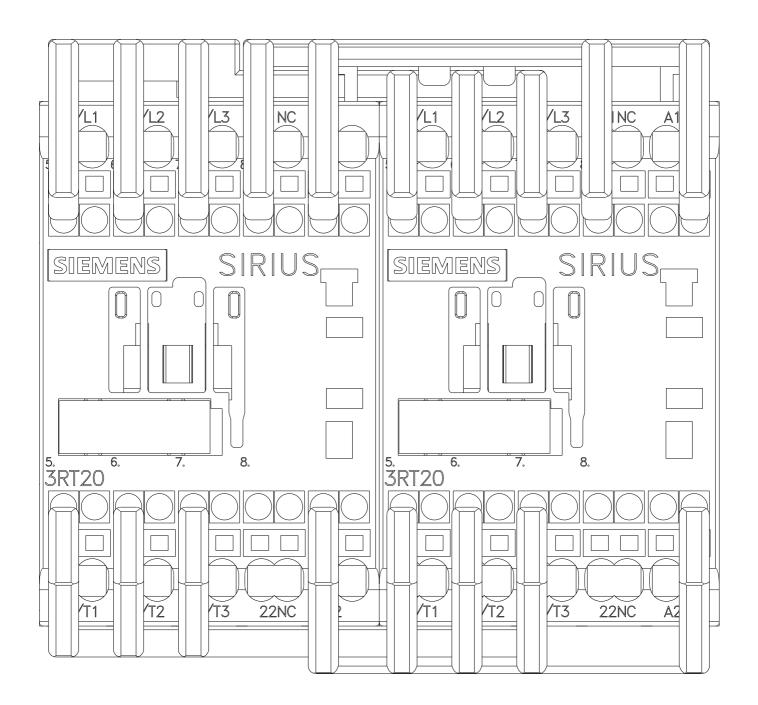
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-2AK6

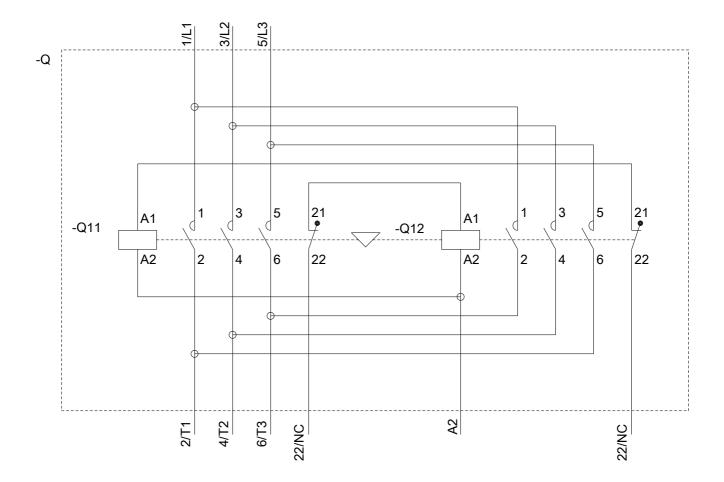
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2315-8XB30-2AK6&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-2AK6&objecttype=14&gridview=view1









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