SIEMENS

Data sheet

3RA2317-8XB30-2AB0



Reversing contactor assembly AC-3,5,5 kW/400 V,AC24V,50/60Hz 3-pole, Size S00 Spring-type terminal electrical and mechanical interlock

product designation Reversing contactor assembly product designation 3RA23 manufacturer's article number 3R12017-2AB02 • 1 of the supplied contactor 3R12017-2AB02 • 2 of the supplied contactor 3R12017-2AB02 size of contactor S00 product extension auxiliary switch Yes shock resistance at rectangular impulse - at AC • at AC 7.3g / 5 ms, 4.7g / 10 ms • at AC 11.4g / 5 ms, 7.3g / 10 ms • at AC 11.4g / 5 ms, 7.3g / 10 ms • at AC 11.4g / 5 ms, 7.3g / 10 ms • of contactor typical 10 000 000 • of contactor typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the proteitions - 25 +60 °C • during storage - 25 +60 °C • during storage - 55 +80 °C Main circuit 3 number of NO contacts for main contacts 3 operating voltage at AC-3 - 40 °C • at 400 V	product brand name	SIRIUS
product type designation 3RA23 manufacturer's article number 3RT2017-2AB02 • 1 of the supplied contactor 3RT2017-2AB02 • 2 of the supplied contactor 3RT2017-2AB02 • of the supplied contactor S00 product extension auxiliary switch Yes shock resistance at rectangular impulse • at AC • at AC 7.3g / 5 ms, 4.7g / 10 ms • at AC 11.4g / 5 ms, 7.3g / 10 ms • at DC 11.4g / 5 ms, 7.3g / 10 ms • at DC 11.4g / 5 ms, 7.3g / 10 ms • of contactor typical 10 000 000 • of the contactor typical 10 000 000 • of the contactor typical 10 000 000 • of the contactor typical 10 000 000 • of contactor typical 10 000 000 • of contactor typical 10 000 000 • of the contactor typical 10 000 000 • of the contactor typical 2000 m ambient temperature • during operation • during operation -25 +60 °C • during operation -25 +80 °C		
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• at AC-3	• at 500 V rated value	9.2 A
• at AC-3	• at 690 V rated value	6.7 A
	operating power	
- at 400 V rated value 5.5 kW	• at AC-3	
	— at 400 V rated value	5.5 kW

— at 500 V rated value	5.5 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
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 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 	37 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	5.7 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.28
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	11 A
• at 600 V rated value	11 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	3 hp
• at 460/480 V rated value	7.5 hp
• at 575/600 V rated value	10 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: 50 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
required	
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 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 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	
— solid	2x (0.5 4 mm ²)
— solid or stranded	$2x (0,5 \dots 4 \text{ mm}^2)$
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)
 finely stranded without core end processing at AWC cobles for main contacts 	2x (0.5 2.5 mm ²)
at AWG cables for main contacts	1x (20 12)
type of connectable conductor cross-sections for auxiliary contacts 	
 for auxiliary contacts — solid or stranded 	$2v (0.5 - 2.5 mm^2)$
 — finely stranded with core end processing 	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
 — finely stranded with core end processing — finely stranded without core end processing 	2x (0.5 1.5 mm ²)
 at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ⁻) 2x (20 14)
Safety related data	ZX (20 14)
	1 000 000
B10 value with high demand rate according to SN 31920	
proportion of dangerous failures	40.0/
with low demand rate according to SN 31920 with high demand rate according to SN 21020	40 % 75 %
with high demand rate according to SN 31920	
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 у
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
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 Conformity
<u>Confirmation</u>	
(SP) (VL)	
C54 0L	Lo with
Test Certificates Marine / Ship	pping
<u>Type Test Certific-</u> <u>Special Test Certific-</u> <u>ates/Test Report</u> <u>ate</u>	Llovds
	Kegister
ABS	BUREAU DNV LRS
	VERITAS
Marine / Shipping	other Railway
indinio / onipping	outor nunway
3RA23178XB302AB0	Subject to change without notice

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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=3RA2317-8XB30-2AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2317-8XB30-2AB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2317-8XB30-2AB0

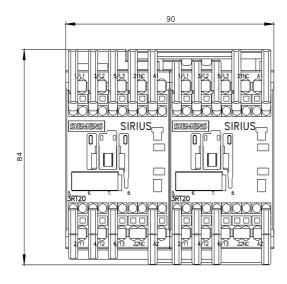
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

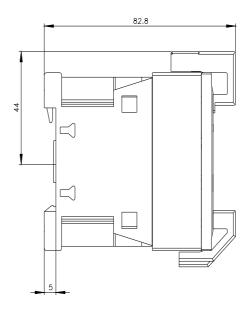
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2317-8XB30-2AB0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2317-8XB30-2AB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2317-8XB30-2AB0&objecttype=14&gridview=view1





last modified:

2/8/2022