SIEMENS

Data sheet

3RA2328-8XB30-1BB4

Reversing contactor assembly AC-3, 18 kW/400 V, 24 V DC 3-pole, Size S0 screw terminal electrical and mechanical Interlock 2 NO integrated



Product brand name	SIRIUS
Product designation	Reversing contactor assembly
Product type designation	3RA23
Manufacturer's article number	
1 of the supplied contactor	3RT2028-1BB40
 2 of the supplied contactor 	<u>3RT2028-1BB40</u>
 of the supplied RS assembly kit 	3RA2923-2AA1

General technical data	
Size of contactor	S0
Product extension	
Auxiliary switch	Yes
Insulation voltage	
 with degree of pollution 3 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	

• at AC	8,3g / 5 ms, 5,3g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
Shock resistance with sine pulse	
● at AC	13,5g / 5 ms, 8,3g / 10 ms
• at DC	15g / 5 ms, 10g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added auxiliary switch 	10 000 000
block typical	
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
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
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	50 A
— at ambient temperature 60 °C rated value	45 A
● at AC-2 at 400 V rated value	38 A
• at AC-3	
— at 400 V rated value	38 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	

— at 24 V rated value	35 A
— at 110 V rated value	15 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
Operating power	
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	18.5 kW
• at AC-4 at 400 V rated value	11 kW
• (no-load operating)	1 500 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 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	5.9 W
Holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
Number of NO contacts for auxiliary contacts	
per direction of rotation	1
instantaneous contact	2
Operating current of auxiliary contacts at AC-12	10 A
maximum	
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
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	

Contact rating of auxiliary contacts according to UL	A600 / Q600
— at 575/600 V rated value	25 hp
— at 460/480 V rated value	25 hp
— at 220/230 V rated value	10 hp
• for three-phase AC motor	
— at 230 V rated value	5 hp
— at 110/120 V rated value	3 hp
• for single-phase AC motor	
Yielded mechanical performance [hp]	
• at 600 V rated value	27 A
• at 480 V rated value	34 A

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

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A

fuse gG: 10 A

nstallation/ 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)	101 mm
Width	90 mm
Depth	107 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	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— single or multi-stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 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	No
Protocol is supported	
AS-interface protocol	No
Product function Control circuit interface with IO link	No

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates









Miscellaneous

Special Test Certificate

Marine / Shipping













other

Railway

Confirmation

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2328-8XB30-1BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2328-8XB30-1BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-1BB4

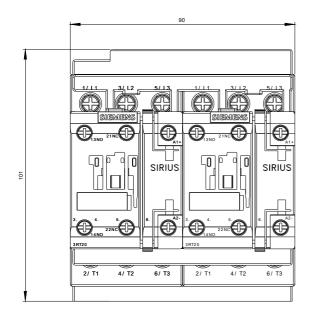
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

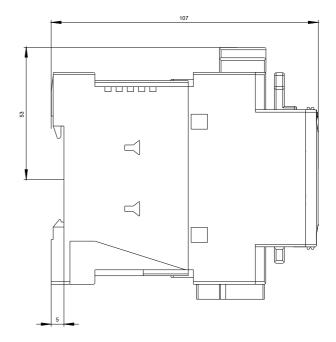
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2328-8XB30-1BB4&lang=en

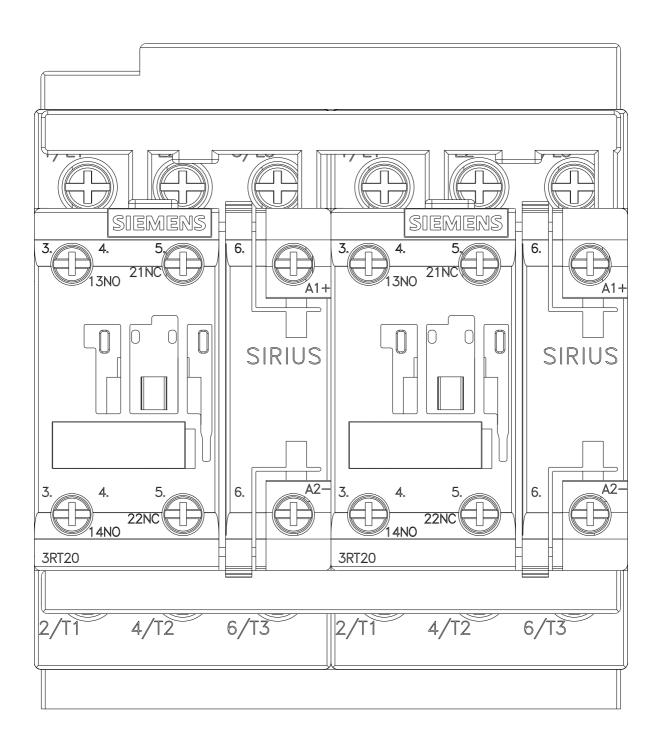
Characteristic: Tripping characteristics, I2t, Let-through current

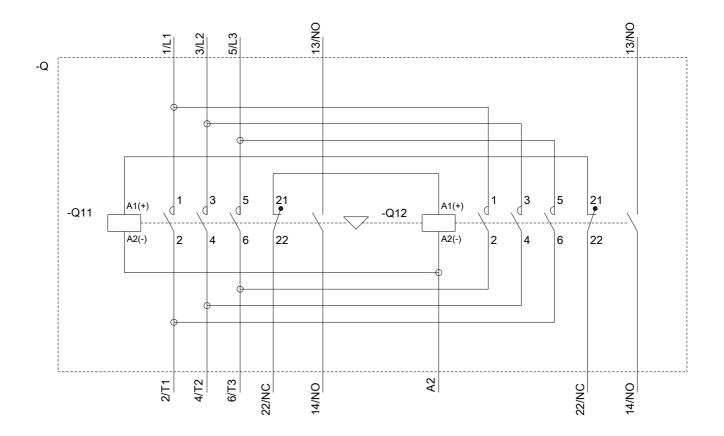
https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-1BB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2328-8XB30-1BB4&objecttype=14&gridview=view1









last modified: 04/18/2019