SIEMENS

Data sheet

3RA2325-8XE30-2BB4

Reversing contactor assembly for 3RA27 AC-3, 7.5 kW/400 V, 24 V DC 3-pole, Size S0 Spring-type terminal electrical and mechanical interlock 2 NO integrated, with voltage tap



product brand name	SIRIUS
Product designation	Reversing contactor assembly
Product type designation	3RA23
Manufacturer's article number	
1 of the supplied contactor	3RT2025-2BB40-0CC0
 2 of the supplied contactor 	3RT2025-2BB40
 of the supplied RH assembly kit 	3RA2923-2AA2

General technical data	
Size of contactor	S0
Product extension	
Auxiliary switch	Yes
 Insulation voltage with degree of pollution 3 at 	690 V
AC rated value	
Surge voltage resistance rated value	6 kV
 protection class IP on the front 	IP20
Shock resistance at rectangular impulse	
● at AC	7,5g / 5 ms, 4,7g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
Shock resistance with sine pulse	

● at AC	11,8g / 5 ms, 7,4g / 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 block typical 	10 000 000
Reference code acc. to DIN EN 81346-2	Q

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
Operating current	
• at AC-3	
— at 400 V rated value	17 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-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	10 kW
— at 690 V rated value	11 kW
• at AC-4 at 400 V rated value	7.5 kW
No-load switching frequency	1 500 1/h
Operating frequency at AC-3 maximum	1 000 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 maximum	10 A
 Operating current of auxiliary contacts at AC-15 at 230 V 	6 A
 operating current of auxiliary contacts at AC-15 at 400 V 	3 A
 operating current of auxiliary contacts at DC-13 at 24 V 	10 A
 Operating current of auxiliary contacts at DC-13 at 60 V 	2 A
 Operating current of auxiliary contacts at DC-13 at 110 V 	1 A
 Operating current of auxiliary contacts at DC-13 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	
• at 480 V rated value	14 A
• at 600 V rated value	17 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp

for three-phase AC motor
 — at 220/230 V rated value
 — at 460/480 V rated value
 — at 575/600 V rated value
 To hp
 15 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

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 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	114 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

 Type of electrical connection for main current 	
Type of electrical conflection for main current	spring-loaded terminals
circuit	
 Type of electrical connection for auxiliary and 	spring-loaded terminals
control current circuit	
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 10 mm²)
 single or multi-stranded 	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
 at AWG conductors for main contacts 	1x (18 8)
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 Conformity

Test Certificates









Miscellaneous

Special Test Certificate

Marine / Shipping













Marine / Ship-	other	Railway
ping		



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=3RA2325-8XE30-2BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2325-8XE30-2BB4

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

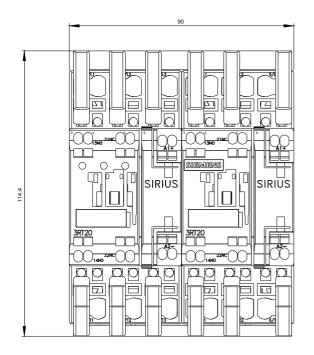
https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XE30-2BB4

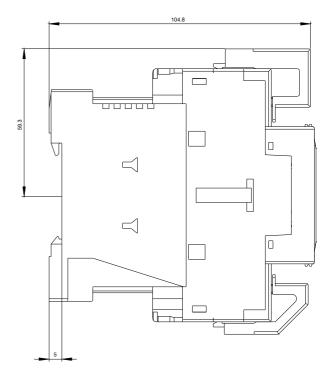
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2325-8XE30-2BB4&lang=en

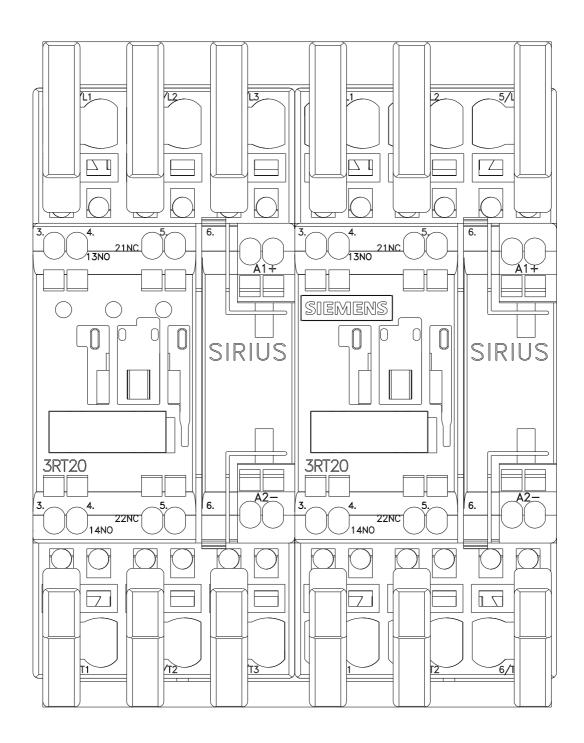
Characteristic: Tripping characteristics, I2t, Let-through current

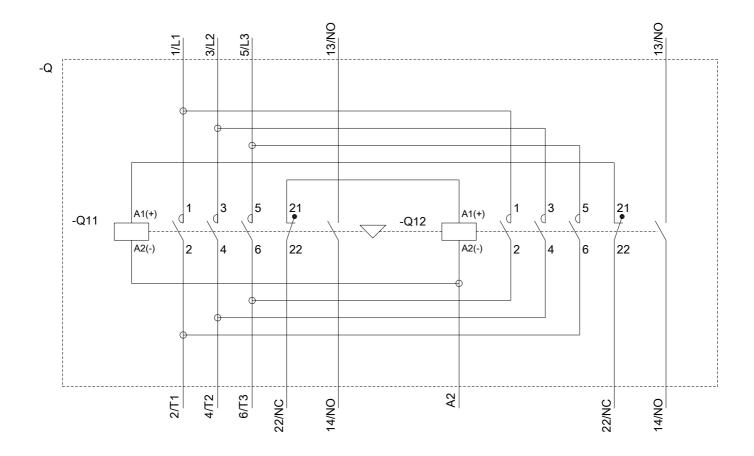
https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XE30-2BB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2325-8XE30-2BB4&objecttype=14&gridview=view1









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