SIEMENS

Data sheet

3RA2337-8XB30-1AP6

Reversing contactor assembly, AC-3, 30 kW 400 V, 220 V AC/50 Hz/240 V AC/60 Hz 3-pole, Size S2 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 	3RT2037-1AG20
 2 of the supplied contactor 	3RT2037-1AG20
 of the supplied RS assembly kit 	3RA2933-2AA1

General technical data	
S2	
Yes	
690 V	
6 kV	
IP20	
11.8g / 5 ms, 11.6g / 10 ms	
18.5g / 5 ms, 11.6g / 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

 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	65 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 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	55 A
— at 110 V rated value	25 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating power	

• at AC-3	
— at 400 V rated value	30 kW
— at 690 V rated value	37 kW
• at AC-4 at 400 V rated value	30 kW
No-load switching frequency	1 500 1/h
Operating frequency at AC-3 maximum	700 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	220 V
• at 60 Hz rated value	240 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	210 V·A
● at 60 Hz	188 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.69
● at 60 Hz	0.65
Apparent holding power of magnet coil at AC	
● at 50 Hz	17.2 V·A
● at 60 Hz	16.5 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
Auxiliary circuit	

Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
 per direction of rotation 	0
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	65 A
• at 600 V rated value	62 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
 for three-phase AC motor 	
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 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: 250 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 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	141 mm
Width	120 mm
Depth	130 mm
Required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

• for grounded parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/ Terminals	
Type of electrical connection for main current circuit	screw-type terminals
 Type of electrical connection for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 35 mm²), 1x (1 50 mm²)
— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
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 	73 %
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

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipother ping



Confirmation

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=3RA2337-8XB30-1AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XB30-1AP6

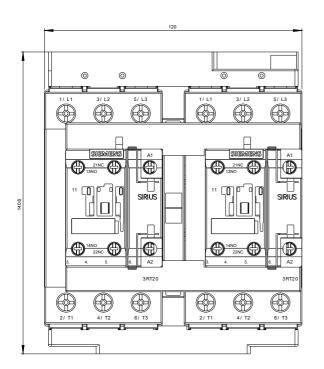
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AF

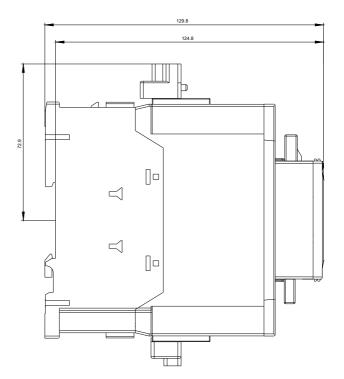
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XB30-1AP6\&lang=en}\\$

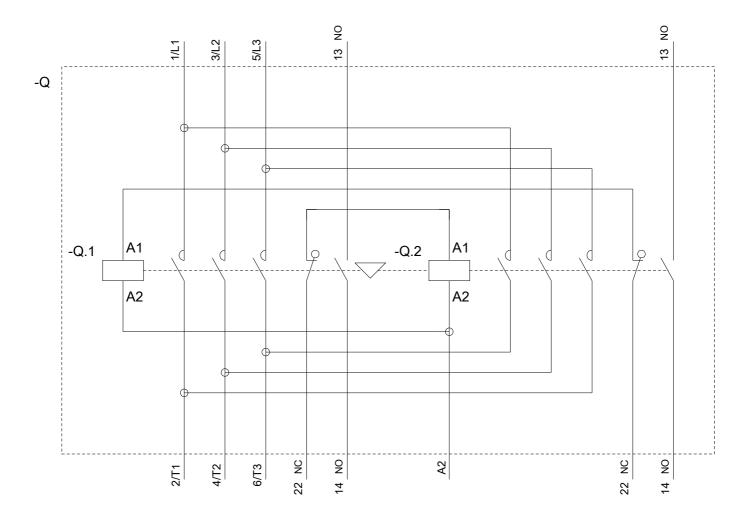
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AP6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1AP6&objecttype=14&gridview=view1







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