



Reversing contactor assembly AC-3, 18,5kW/400V, AC230V, 50/60Hz 3-pole, Size S2 screw terminal electrical and mechanical Interlock 2 NO integrated

product brand name
product designation
product type designation
manufacturer's article number

SIRIUS
Reversing contactor assembly
3RA23

- 1 of the supplied contactor
- 2 of the supplied contactor
- of the supplied RS assembly kit

[3RT2035-1AL20](#)
[3RT2035-1AL20](#)
[3RA2933-2AA1](#)

General technical data

size of contactor
product extension auxiliary switch
shock resistance at rectangular impulse

- at AC

shock resistance with sine pulse

- at AC

mechanical service life (switching cycles)

- of contactor typical
- of the contactor with added auxiliary switch block typical

reference code according to IEC 81346-2
Substance Prohibition (Date)

S2
Yes
11.8g / 5 ms, 11.6g / 10 ms
18.5g / 5 ms, 11.6g / 10 ms
10 000 000
10 000 000
Q
10/01/2014

Ambient conditions

installation altitude at height above sea level maximum
ambient temperature

- during operation
- during storage

2 000 m
-25 ... +60 °C
-55 ... +80 °C

Main circuit

number of poles for main current circuit
number of NO contacts for main contacts
number of NC contacts for main contacts
operating voltage

- at AC-3 rated value maximum
- at AC-3e rated value maximum

operational current

- at AC-3
 - at 400 V rated value
 - at 500 V rated value
 - at 690 V rated value
- at AC-3e
 - at 400 V rated value
 - at 500 V rated value
 - at 690 V rated value

operating power

3
3
0
690 V
690 V
41 A
41 A
24 A
41 A
41 A
24 A

• at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value • at AC-3e — at 400 V rated value — at 690 V rated value • at AC-4 at 400 V rated value	18.5 kW 22 kW 22 kW 18.5 kW 22 kW 18.5 kW
operating frequency	
• at AC-3 maximum • at AC-3e maximum	1 000 1/h 1 000 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 • at 60 Hz rated value	230 V 230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz • at 60 Hz	0.8 ... 1.1 0.85 ... 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz • at 60 Hz	210 VA 188 VA
inductive power factor with closing power of the coil	
• at 50 Hz • at 60 Hz	0.69 0.65
apparent holding power of magnet coil at AC	
• at 50 Hz • at 60 Hz	17.2 VA 16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz • at 60 Hz	0.36 0.39
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 • instantaneous contact	1 2
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 • at 600 V rated value	40 A 41 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value	15 hp 30 hp 40 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: 160 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 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
fastening method	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
- for auxiliary and control circuit screw-type terminals
- at contactor for auxiliary contacts Screw-type terminals
- of magnet coil Screw-type terminals

type of connectable conductor cross-sections

- for main contacts
 - solid 2x (1 ... 35 mm²), 1x (1 ... 50 mm²)
 - solid or 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 cables for main contacts 2x (18 ... 2), 1x (18 ... 1)

type of connectable conductor cross-sections

- for auxiliary contacts
 - solid or 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 cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14)

Safety related data

B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
• with low demand rate according to SN 31920	40 %
• with high demand rate according to SN 31920	73 %
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 y
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**
[Confirmation](#)
**Test Certificates****Marine / Shipping**



Marine / Shipping

other

Dangerous Good



[Confirmation](#)

[Transport Information](#)

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=3RA2335-8XB30-1AL2>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2335-8XB30-1AL2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2335-8XB30-1AL2>

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

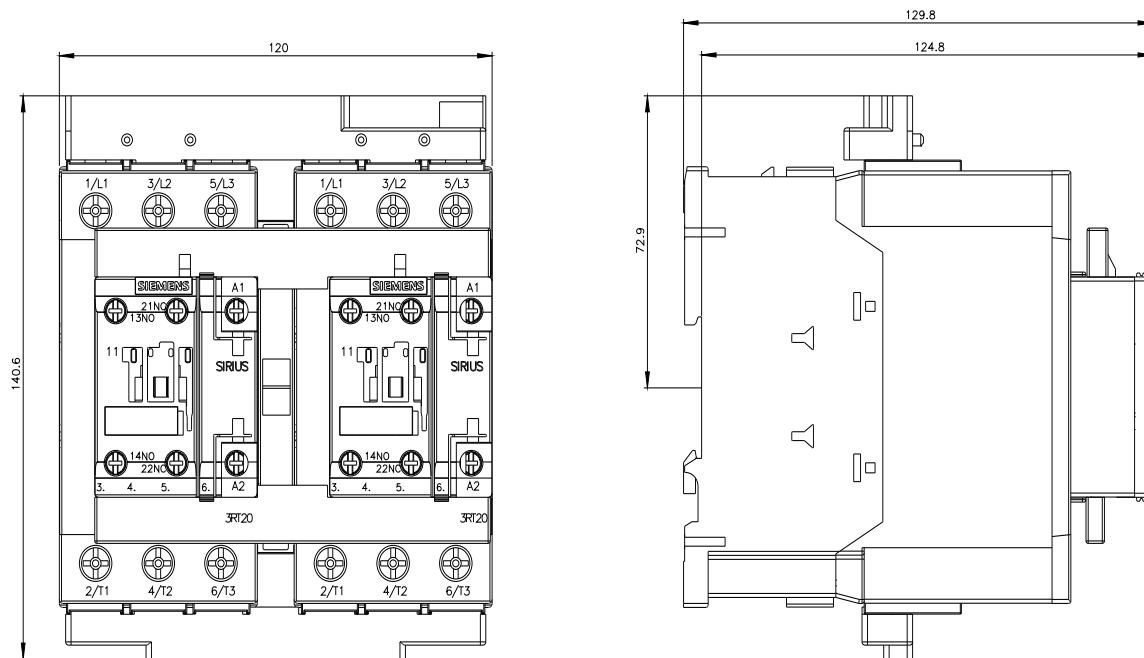
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2335-8XB30-1AL2&lang=en

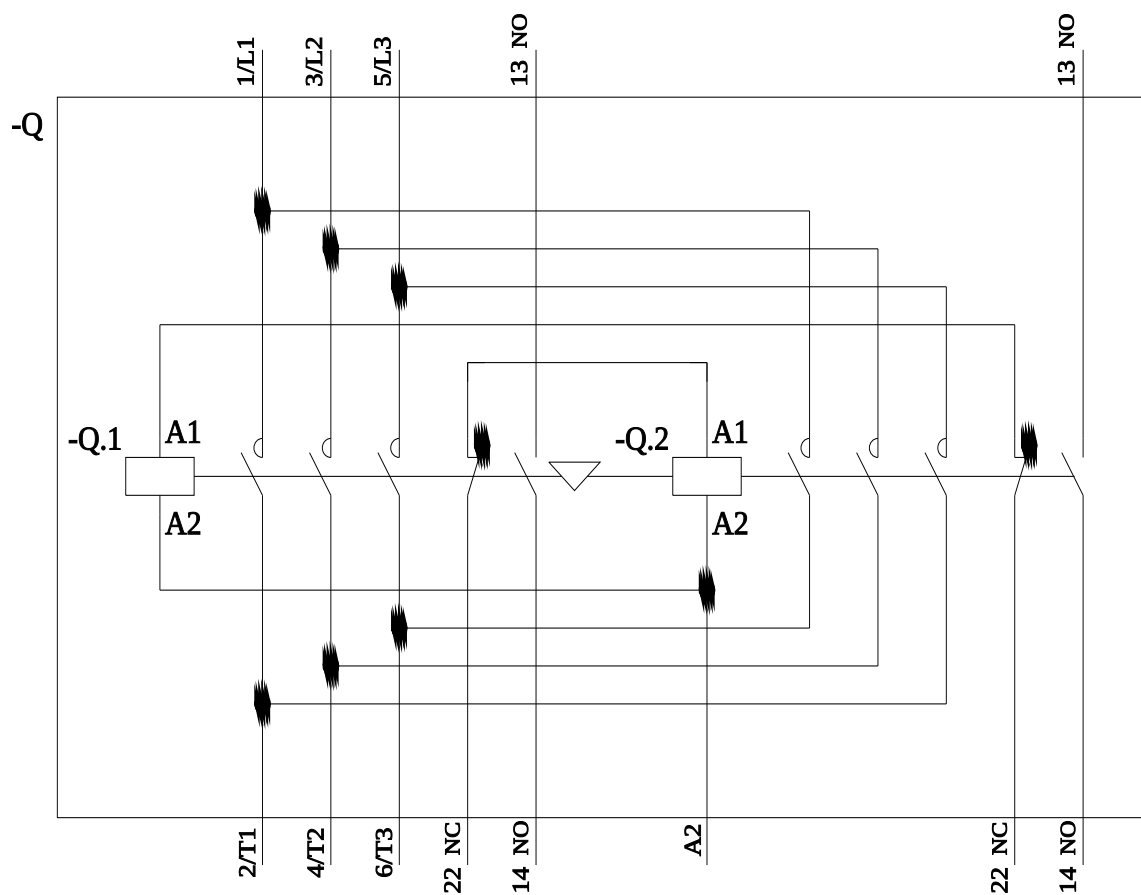
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2335-8XB30-1AL2/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2335-8XB30-1AL2&objecttype=14&gridview=view1>





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