



reversing contactor assembly, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO

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

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

SIRIUS
Reversing contactor assembly
3RA23

[3RT2037-1NB30](#)
[3RT2037-1NB30](#)
[3RA2933-2AA1](#)

General technical data

size of contactor S2
product extension auxiliary switch Yes
shock resistance at rectangular impulse

- at AC 7.7g / 5 ms, 4.5g / 10 ms
- at DC 7.7g / 5 ms, 4.5g / 10 ms

shock resistance with sine pulse

- at AC 12g / 5 ms, 7g / 10 ms
- at DC 12g / 5 ms, 7g / 10 ms

mechanical service life (operating cycles)

- of contactor typical 10 000 000
- of the contactor with added auxiliary switch block typical 10 000 000

reference code according to IEC 81346-2 Q
Substance Prohibittance (Date) 10/01/2014

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
- at AC-3e rated value maximum 690 V

operational current

- at AC-3
 - at 400 V rated value 65 A
 - at 500 V rated value 65 A
 - at 690 V rated value 47 A
- at AC-3e
 - at 400 V rated value 65 A
 - at 500 V rated value 65 A

— at 690 V rated value	47 A
operating power	
• 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	30 kW 37 kW 37 kW 30 kW 37 kW 30 kW
operating frequency	
• at AC-3 maximum • at AC-3e maximum	700 1/h 700 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz • at 60 Hz	20 ... 33 V 20 ... 33 V
control supply voltage 1	
• at DC	20 ... 33 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz • at 60 Hz	0.8 ... 1.1 0.8 ... 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz • at 60 Hz	40 VA 40 VA
inductive power factor with closing power of the coil	
• at 50 Hz • at 60 Hz	0.64 0.5
apparent holding power of magnet coil at AC	
• at 50 Hz • at 60 Hz	2 VA 2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz • at 60 Hz	0.36 0.39
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
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	65 A 62 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	20 hp 50 hp 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
fastening method	screw and snap-on mounting onto 35 mm DIN 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 a
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

[Type Test Certificates/Test Report](#)



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=3RA2337-8XB30-1NB3>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XB30-1NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1NB3>

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

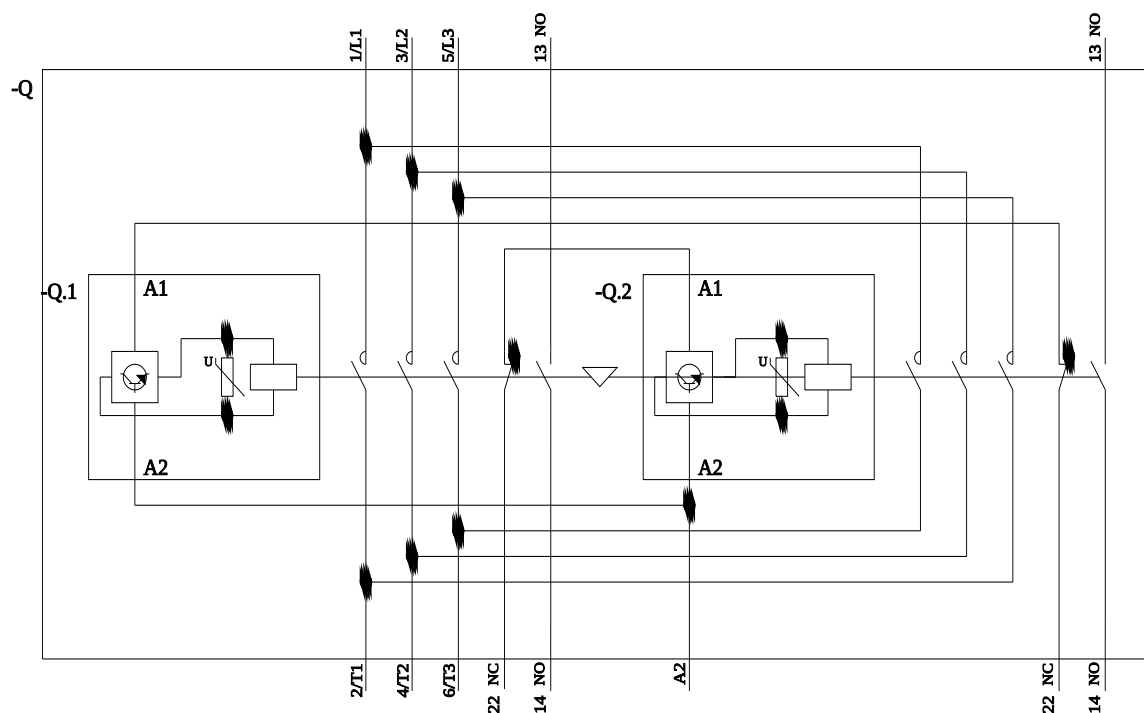
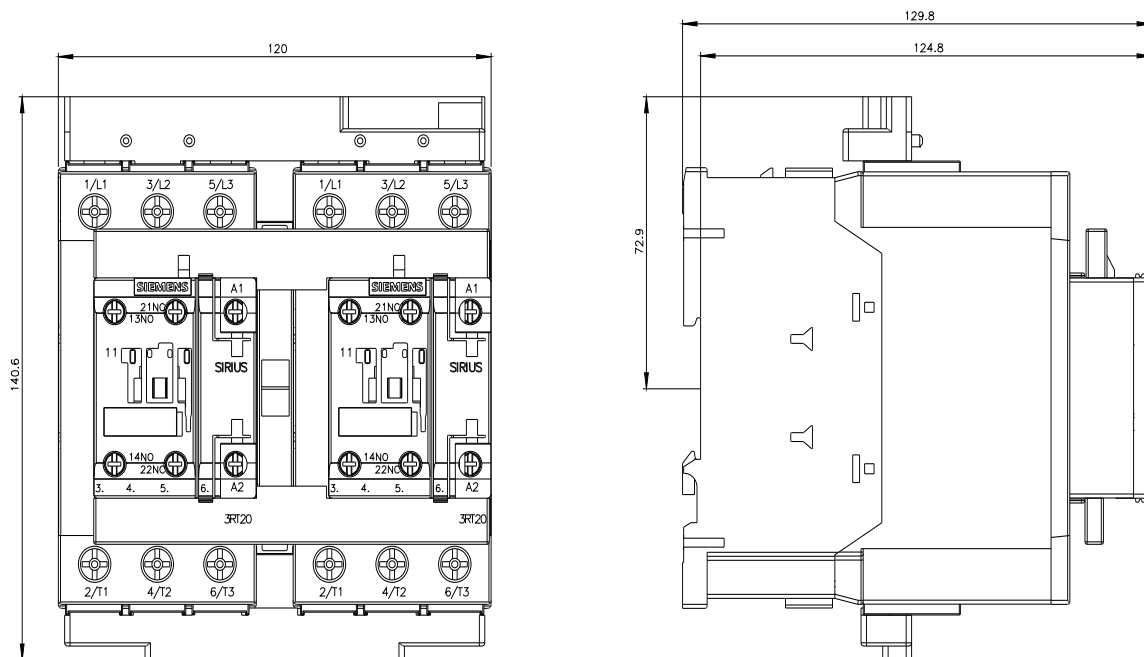
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XB30-1NB3&lang=en

Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1NB3/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1NB3&objecttype=14&gridview=view1>



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