

Contactor assembly for star-delta (wye-delta) start AC-3, 5.5 kW/400 V, 24 V DC 3-pole, Size S00 screw terminals electrical and mechanical interlock 3 NO integrated



product brand name

SIRIUS

product designation

Contactor assembly for star-delta (wye-delta) start

product type designation

3RA24

manufacturer's article number

- 1 of the supplied contactor
- 2 of the supplied contactor
- 3 of the supplied contactor
- of the supplied RS assembly kit
- of the supplied function module for wye-delta circuits

[3RT2015-1BB41](#)

[3RT2015-1BB41](#)

[3RT2015-1BB41](#)

[3RA2913-2BB1](#)

[3RA2816-0EW20](#)

General technical data

size of contactor

S00

product extension auxiliary switch

No

shock resistance at rectangular impulse

- at AC 6,7g / 5 ms, 4,2g / 10 ms
- at DC 6,7g / 5 ms, 4,2g / 10 ms

shock resistance with sine pulse

- at AC 10,5g / 5 ms, 6,6g / 10 ms
- at DC 10,5g / 5 ms, 6,6g / 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 according to IEC 81346-2

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Substance Prohibitance (Date)

10/01/2009

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

operational current

- at AC-3 — at 400 V rated value 12 A

operating power

- at AC-3 — at 400 V rated value 5.5 kW

— at 500 V rated value	7.2 kW
— at 690 V rated value	9.2 kW
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	10 W
holding power of magnet coil at DC	10 W
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
• instantaneous contact	3
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
UL/CSA ratings	
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	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
• for short-circuit protection of the auxiliary switch required	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	68 mm
width	135 mm
depth	145 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 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 (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x (0.5 ... 4 mm²)
— finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• at AWG cables for main contacts	2x (20 ... 16), 2x (18 ... 14)
type of connectable conductor cross-sections	
• for auxiliary contacts	

- solid or stranded
- finely stranded with core end processing
- at AWG cables for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
 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	75 %
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	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

[Confirmation](#)



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Marine / Shipping



Marine / Shipping

other

Railway

Dangerous Good



[Confirmation](#)

[Vibration and Shock](#)

[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=3RA2415-8XF31-1BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2415-8XF31-1BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2415-8XF31-1BB4>

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

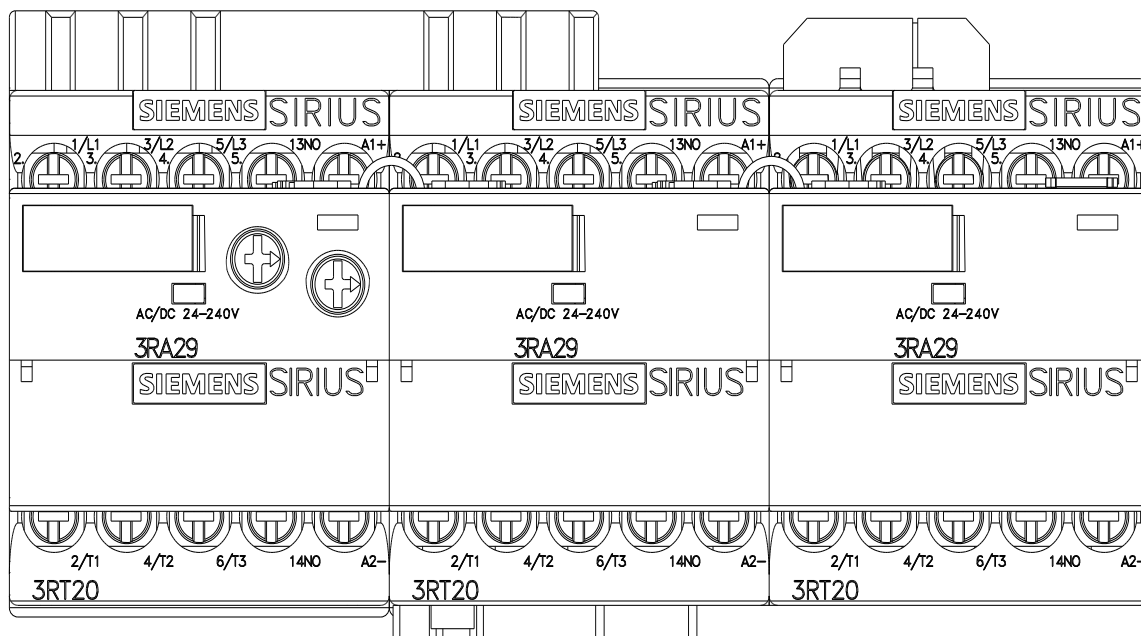
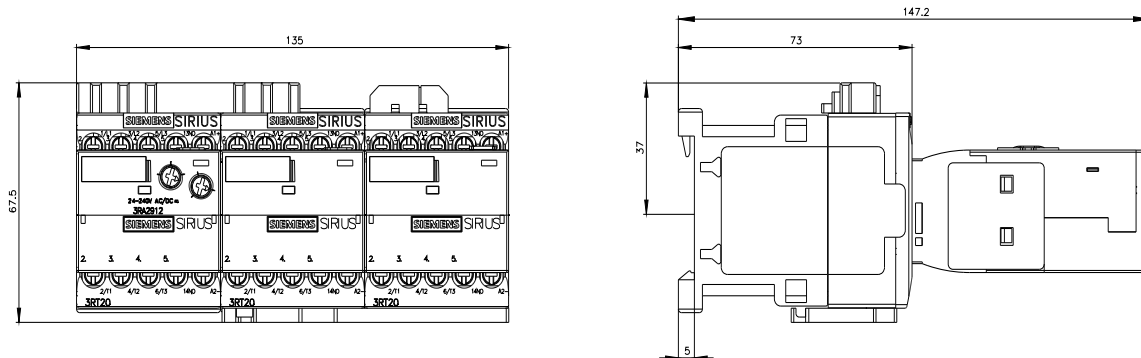
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2415-8XF31-1BB4&lang=en

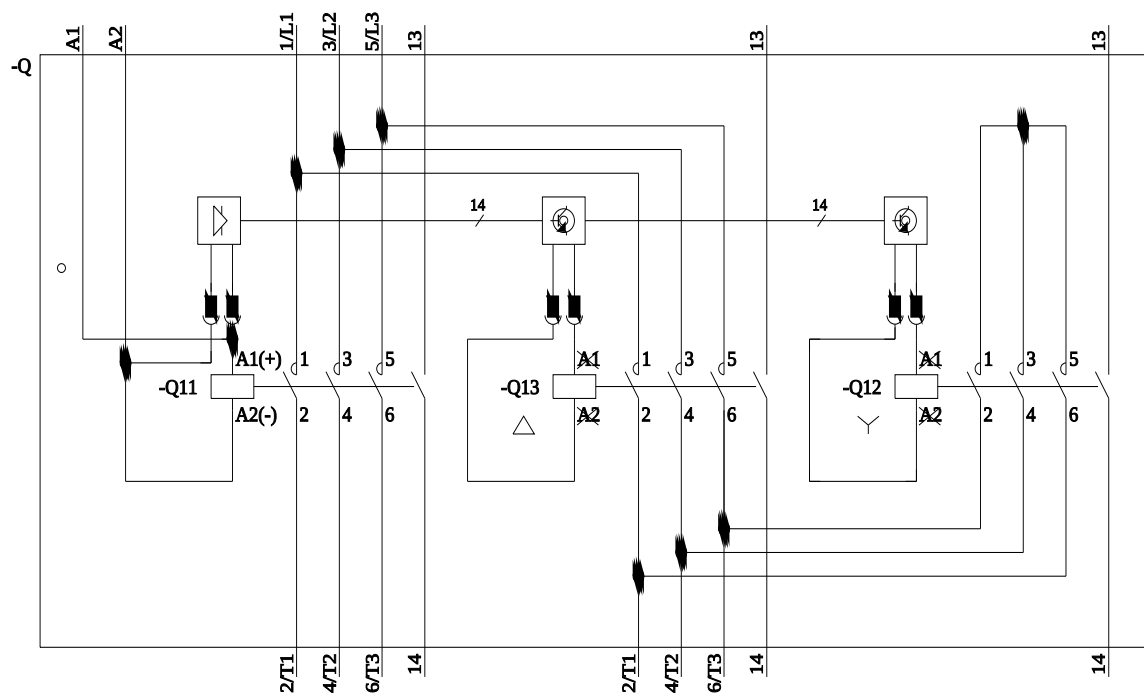
Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2415-8XF31-1BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2415-8XF31-1BB4&objecttype=14&gridview=view1>





last modified:

12/1/2021 