



Reversing contactor assembly, AC-3, 18.5 kW 400 V, 24 V AC, 50/60 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 3RT2035-1AG20 • 2 of the supplied contactor 3RT2035-1AG20 • of the supplied RS assembly kit 3RA2933-2AA1
General technical data	
size of contactor	S2
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 11.6g / 10 ms
shock resistance with sine pulse	
• at AC	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 IEC 81346-2	Q
Substance Prohibitation (Date)	01.10.2014 00:00:00
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	41 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-4 at 400 V rated value	18.5 kW
operating frequency at AC-3 maximum	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	24 V 24 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 V·A 188 V·A
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 V·A 16.5 V·A
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 — backwards — upwards — downwards	10 mm 0 mm 10 mm 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 connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²)
— solid or stranded	2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²)
— finely stranded with core end processing	2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²)
• 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 mm ²), 2x (0,75 ... 2,5 mm ²)
— finely stranded with core end processing	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
• at AWG cables 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
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. 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	Test Certificates
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[UK Declaration of Conformity](#)

[Type Test Certificates/Test Report](#)

Marine / Shipping



Marine / Shipping	other
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[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=3RA2335-8XB30-1AC2>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2335-8XB30-1AC2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2335-8XB30-1AC2>

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

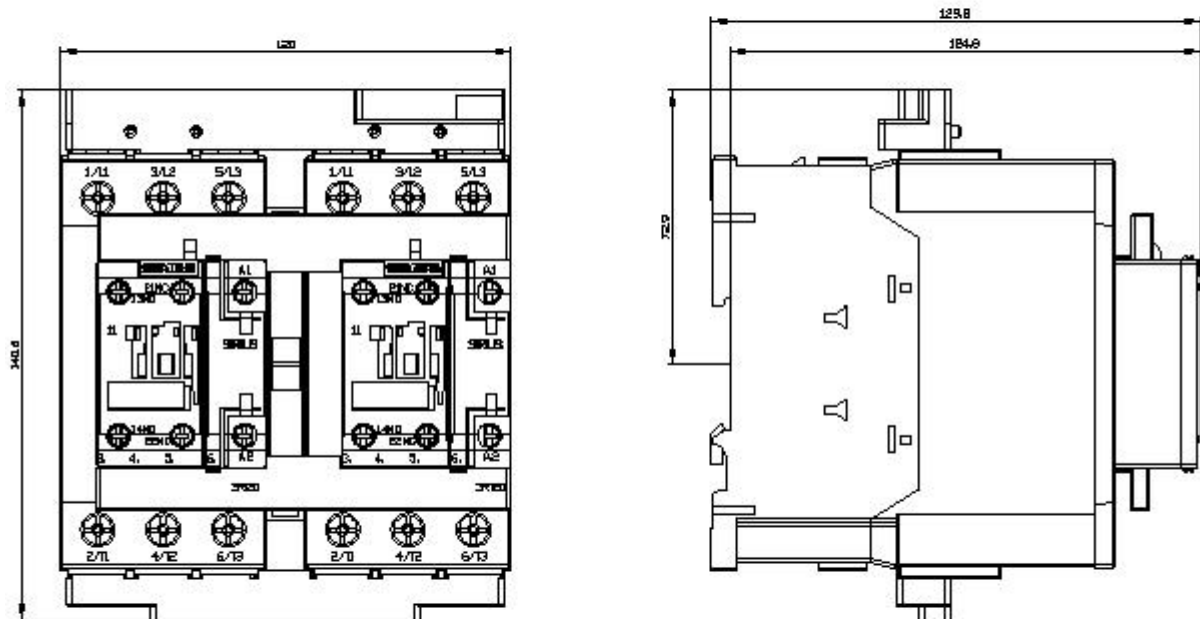
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2335-8XB30-1AC2&lang=en

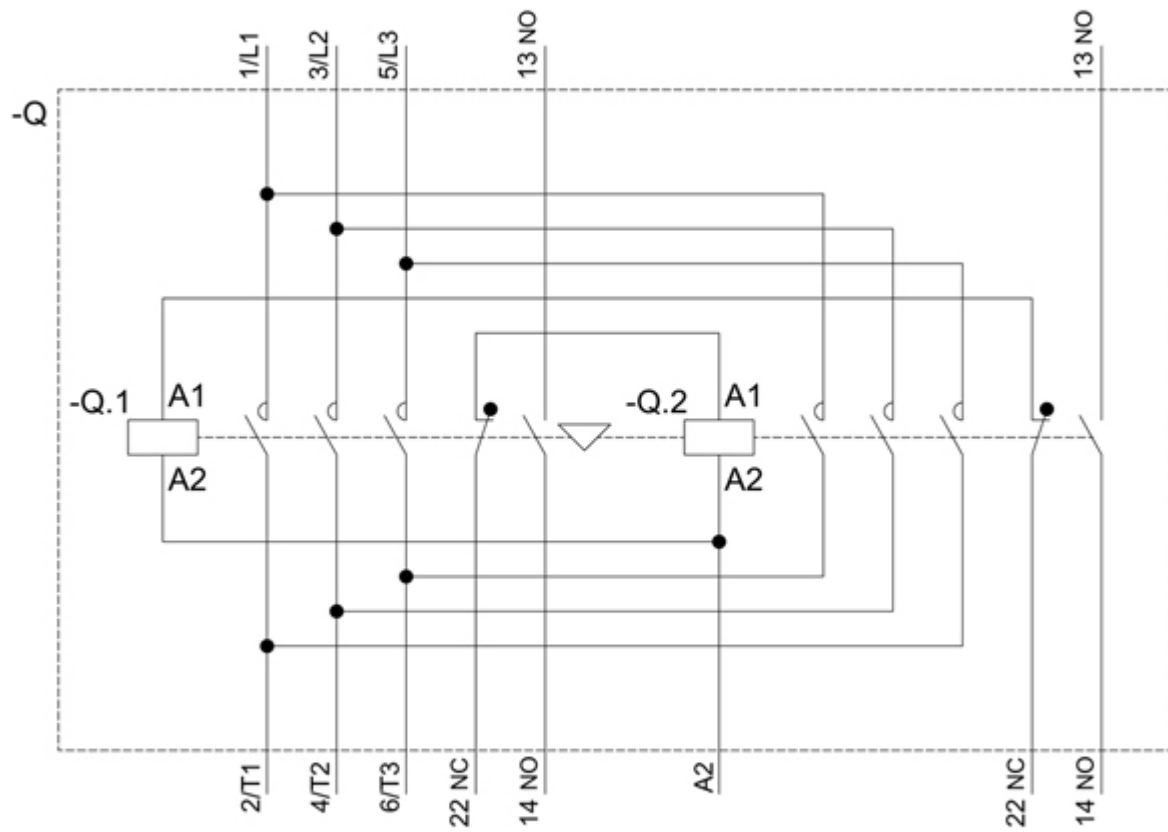
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2335-8XB30-1AC2/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2335-8XB30-1AC2&objecttype=14&gridview=view1>





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