



reversing contactor assembly, AC-3e/AC-3, 41 A, 18.5 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, with voltage tap for 3RA27

product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
• 1 of the supplied contactor	3RT2035-1NB30-0CC0
• 2 of the supplied contactor	3RT2035-1NB30
• 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	7.7 g / 5 ms, 4.5 g / 10 ms
• at DC	7.7 g / 5 ms, 4.5 g / 10 ms
shock resistance with sine pulse	
• at AC	12 g / 5 ms, 7 g / 10 ms
• at DC	12 g / 5 ms, 7 g / 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 Prohibitance (day/month/year)	10/01/2014
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1
Net Weight	2.1 kg
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	0
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 — 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	41 A 41 A 24 A 41 A 41 A 24 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	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/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	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	15 hp 30 hp

• at 575/600 V rated value	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 coordination 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 DIN rail
height	141 mm
width	120 mm
depth	130 mm
required spacing	
- with side-by-side mounting - forwards - backwards - upwards - downwards - at the side - for grounded parts - forwards - backwards - upwards - at the side - downwards - for live parts - forwards - backwards - upwards - downwards - at the side	10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm
Connections/ Terminals	
type of electrical connection	
- for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil	screw-type terminals screw-type terminals Screw-type terminals screw terminal
type of connectable conductor cross-sections for main contacts	
- solid - solid or stranded - finely stranded with core end processing	2x (1 ... 35 mm²), 1x (1 ... 50 mm²) 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) 2x (1 ... 25 mm²), 1x (1 ... 35 mm²)
type of connectable conductor cross-sections	
- for auxiliary contacts - solid or stranded - finely stranded with core end processing - for 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	
product function suitable for safety function	Yes
Electrical Safety	
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
Approvals Certificates	

Environment	General Product Approval	Test Certificates
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[Environmental Confirmations](#)



[Type Test Certificates/Test Report](#)

Maritime application



other

[Confirmation](#)

[Confirmation](#)



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RA2335-8XE30-1NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2335-8XE30-1NB3>

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

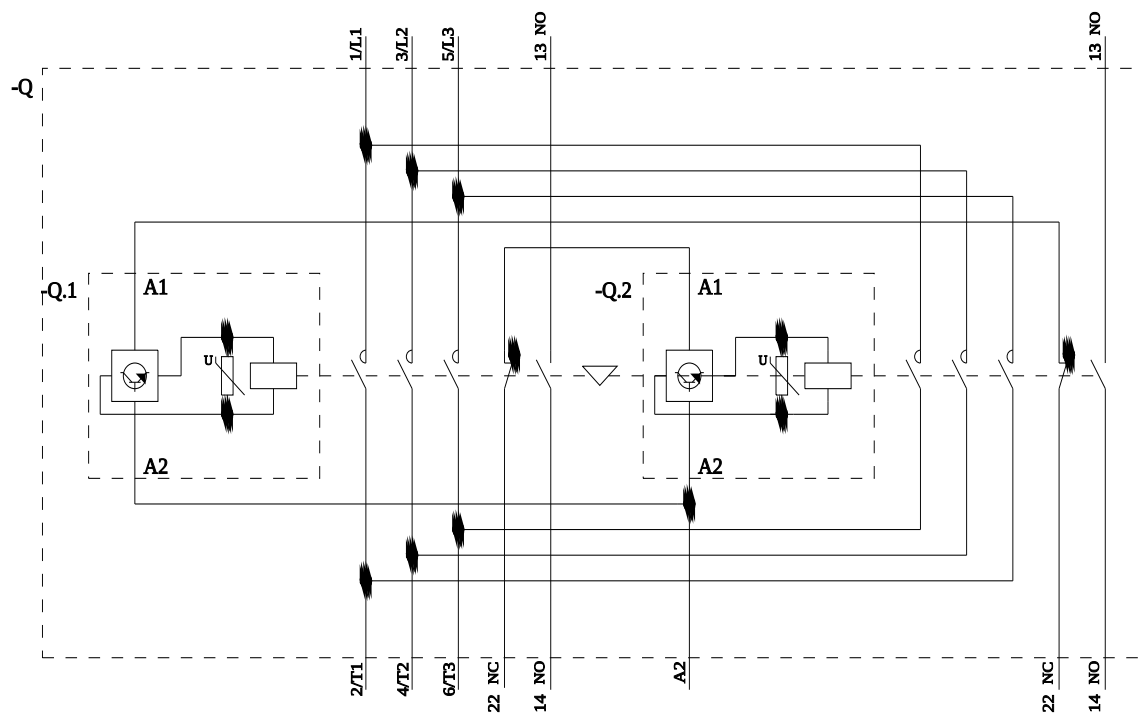
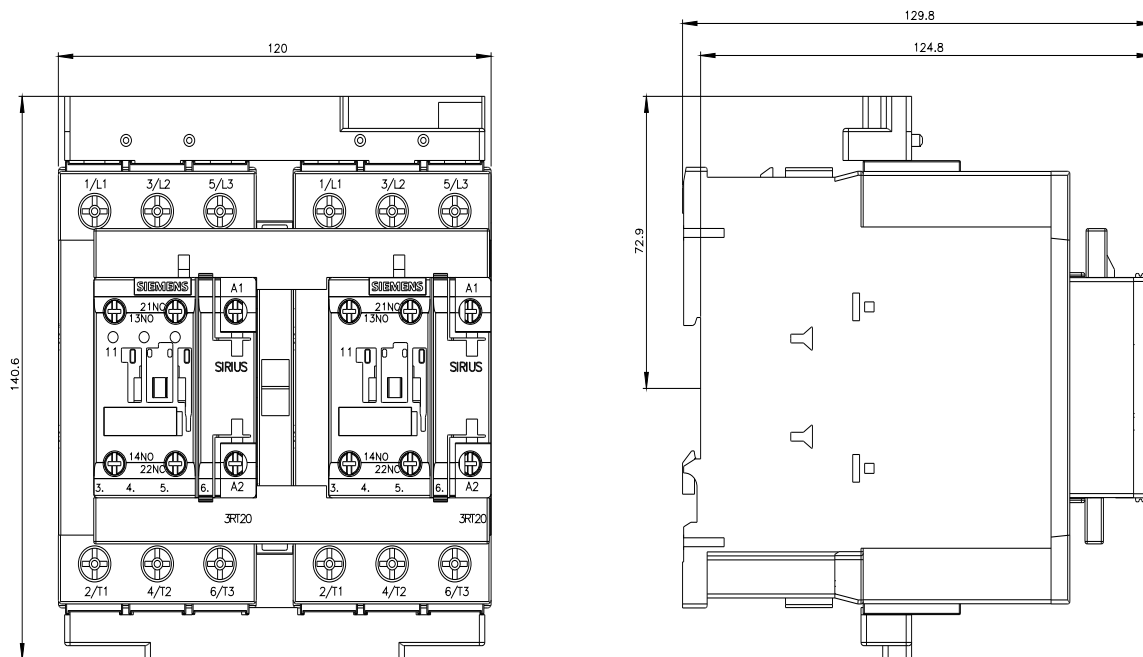
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Cax online generator

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Characteristic curves

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last modified:

7/22/2026

