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Data sheet 3RA2417-8XE31-1BB4

star-delta (wye-delta) combination, IO-Link AC-3, 11 kW/400 V, 24 V DC 3-pole, frame size S00 screw terminal 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	3RT2018-1BB41-0CC0
● 2 of the supplied contactor	3RT2018-1BB41
● 3 of the supplied contactor	3RT2016-1BB41
● of the supplied RS assembly kit	3RA2913-2BB1
● of the supplied function module for communication	3RA2711-1CA00
General technical data	
size of contactor	S00
product extension auxiliary switch	No
shock resistance at rectangular impulse	
● at AC	7,3 g / 5 ms, 4,7 g / 10 ms
● at DC	7.3 g / 5 ms, 4.7 g / 10 ms
shock resistance with sine pulse	
● at AC	11,4 g / 5 ms, 7,3 g / 10 ms
● at DC	11,4 g / 5 ms, 7,3g / 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)	10/01/2009
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	1.097 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	3
number of NC contacts for main contacts	0
operating voltage	
● at AC-3 rated value maximum	690 V

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operational current	
● at AC-3	
— at 400 V rated value	25 A
operating power	
● at AC-3	
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 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: 50 A
— with type of coordination 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 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 DIN 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 terminal

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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)
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)
● for AWG cables for auxiliary contacts	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	No
protocol is supported AS-Interface protocol	No
product function control circuit interface with IO link	Yes

Approvals Certificates

Environment	General Product Approval			Test Certificates	
Environmental Confirmations	EAC	CE EG-Konf.	UKCA	Type Test Certificates/Test Report	Special Test Certificate

Maritime application

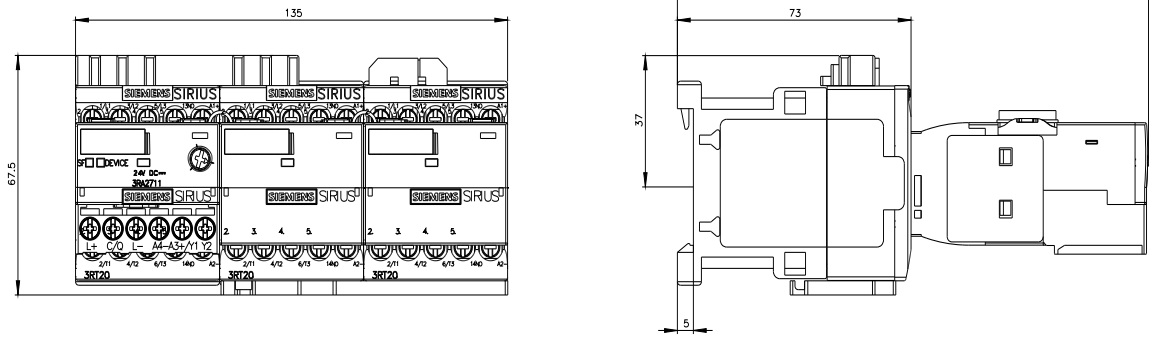
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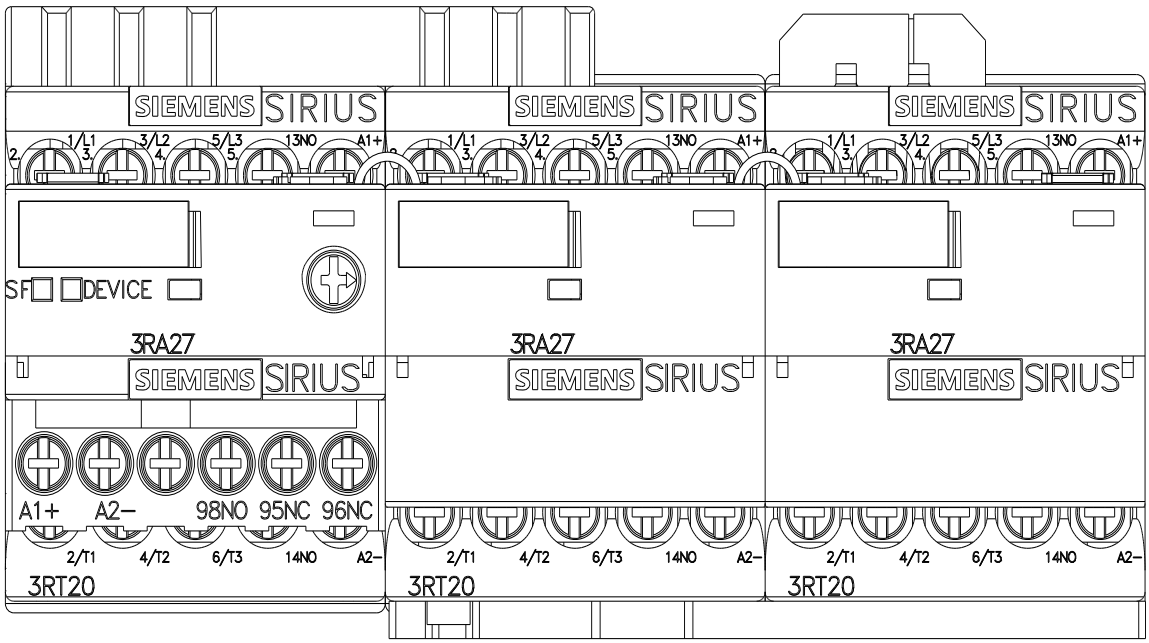
other			Railway	Dangerous goods
Confirmation	Confirmation	产品合格 QC PASS	Special Test Certificate	Transport Information

Further information

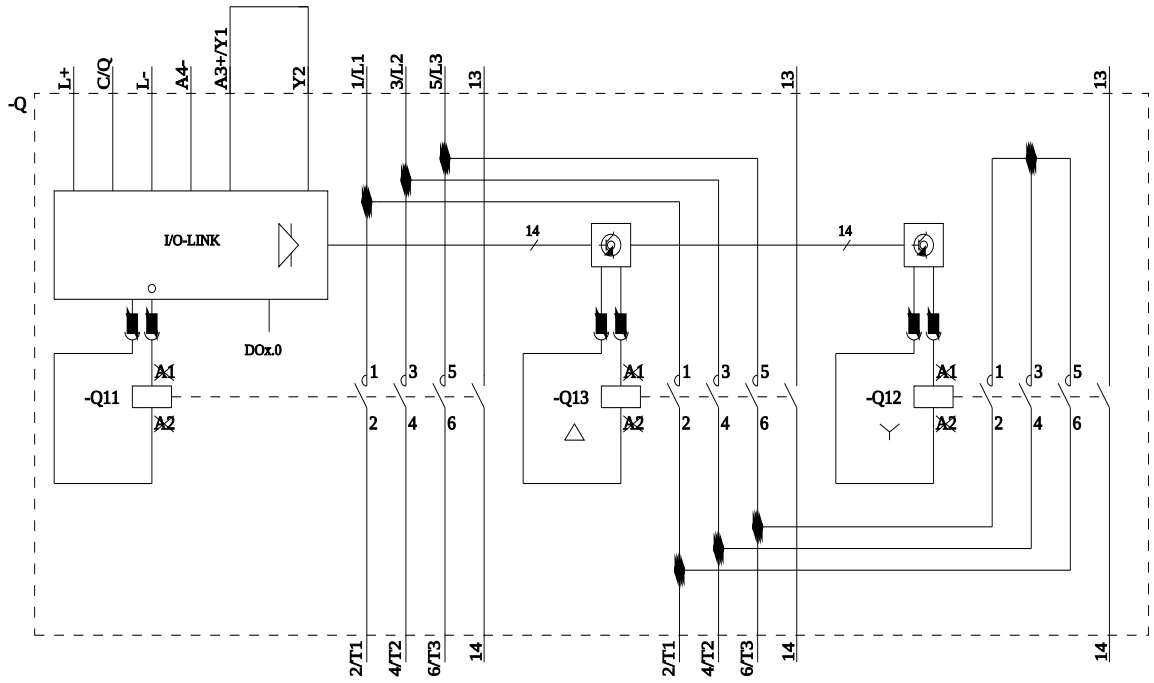
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
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