

Reference: 3RA2417-8XF31-2AP6

STAR-DELTA COMB. AC3, 11KW/400V  
AC220V 50HZ/240V 60HZ,3-POLE SZ  
S00, SPRING-LOADED TERMINAL  
ELECTR. AND MECH. INTERLOCK 3NO  
INTEGR.

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product brand name	SIRIUS
Product designation	star-delta (wye-delta) contactor assembly 3RA24
Manufacturer's article number	
1 of the supplied contactor	3RT2018-2AP61
2 of the supplied contactor	3RT2018-2AP61
3 of the supplied contactor	3RT2016-2AP61
of the supplied RS assembly kit	3RA2913-2BB2
of the supplied function module for wye-delta circuits	3RA2816-0EW20
General technical data:	
Size of contactor	S00
Product extension	
Auxiliary switch	No
Insulation voltage	
with degree of pollution 3 rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
on the front	IP20
Shock resistance	9.8g / 5 ms and 5.9g / 10 ms
at rectangular impulse	
— at AC	7,3g / 5 ms, 4,7g / 10 ms

— at DC	7.3g / 5 ms, 4.7g / 10 ms
with sine pulse	
— at AC	11,4g / 5 ms, 7,3g / 10 ms
— at DC	11,4g / 5 ms, 7,3g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
of the contactor with atd>	10 000 000
Equipment marking	
acc. to DIN EN 81346-2	Q
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
Operating current	
at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	22 A
— at ambient temperature 60 °C rated value	20 A
at AC-2 at 400 V rated value	25 A
at AC-3	
— at 400 V rated value	25 A
No-load switching frequency	1 500 1/h
Operating frequency	
at AC-1 maximum	1 000 1/h
at AC-2 maximum	1 000 1/h
at AC-3 maximum	1 000 1/h
at AC-4 maximum	300 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	220 V
at 60 Hz rated value	240 V

Operating range factor control supply voltage rated value of magnet coil at AC	
at 50 Hz	0.8 ... 1.1
at 60 Hz	0.85 ... 1.1
Apparent pick-up power of magnet coil at AC	
at 50 Hz	37 V·A
Inductive power factor with closing power of the coil	
at 50 Hz	0.8
Apparent holding power of magnet coil at AC	
at 50 Hz	5.7 V·A
Inductive power factor with the holding power of the coil	
at 50 Hz	0.28
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— instantaneous contact	0
Number of NO contacts	
for auxiliary contacts	
— instantaneous contact	3
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at AC-15	
at 230 V	6 A
at 400 V	3 A
Operating current of auxiliary contacts at DC-13	
at 24 V	10 A
at 60 V	2 A
at 110 V	1 A
at 220 V	0.3 A
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	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
for short-circuit protection of the auxiliary switch required	fuse gL/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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	84 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	spring-loaded terminals
for auxiliary and control current circuit	spring-loaded terminals
Type of connectable conductor cross-sections	
for main contacts	
— solid	2x (0.5 ... 4 mm <sup>2</sup> )
— single or multi-stranded	2x (0,5 ... 4 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 ... 2.5 mm <sup>2</sup> )
— finely stranded without core end processing	2x (0.5 ... 2.5 mm <sup>2</sup> )
at AWG conductors for main contacts	1x (20 ... 12)

Type of connectable conductor cross-sections	
for auxiliary contacts	
— single or multi-stranded	2x (0,5 ... 2,5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> )
— finely stranded without core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> )
at AWG conductors for auxiliary contacts	2x (20 ... 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	75 %
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
Communication/ Protocol:	
Product function Bus communication	No
Protocol is supported	
AS-interface protocol	No