

Reference: 3RA2317-8XB11-1BB4

REV. COMB., AC3, 5.5KW/ 400V DC24V, WITH 1NO 3-POLE, SZ S00 SCREW TERMINAL WITHOUT NC CONTACT INTERLOCK

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product brand name	SIRIUS
Product designation	reversing contactor assembly 3RA23
Manufacturer's article number	
1 of the supplied contactor	3RT2017-1BB41
2 of the supplied contactor	3RT2017-1BB41
of the supplied RH assembly kit	3RA2913-2AA1
General technical data:	
Size of contactor	S00
Product extension	
Auxiliary switch	Yes
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	7 A
at AC-3	
— at 400 V rated value	12 A
Operating current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
with 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
Operating current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	0.15 A
with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	0.35 A
— at 24 V rated value	20 A
with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	20 A

— at 24 V rated value	20 A
No-load switching frequency	1 500 1/h
Operating frequency	
at AC-1 maximum	1 000 1/h
at AC-2 maximum	750 1/h
at AC-3 maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage 1	
at DC rated value	24 V
Operating range factor control supply voltage rated value of magnet coil at DC	0.85 ... 1.1
Closing power of magnet coil at DC	4 W
Holding power of magnet coil at DC	4 W
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— per direction of rotation	0
— instantaneous contact	0
Number of NO contacts	
for auxiliary contacts	
— per direction of rotation	1
— instantaneous contact	2
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:	
Full-load current (FLA) for three-phase AC motor	
at 480 V rated value	11 A
at 600 V rated value	11 A

Yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
for three-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 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	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	68 mm
Witd>	90 mm
Depth	73 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 current circuit	screw-type terminals
Type of connectable conductor cross-sections	
for main contacts	
— solid	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ²
— single or multi-stranded	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x (0,5 ... 4 mm ²)
— finely stranded with core end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
at AWG conductors for main contacts	2x (20 ... 16), 2x (18 ... 14)
Type of connectable conductor cross-sections	
for auxiliary contacts	
— single or multi-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 conductors 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	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