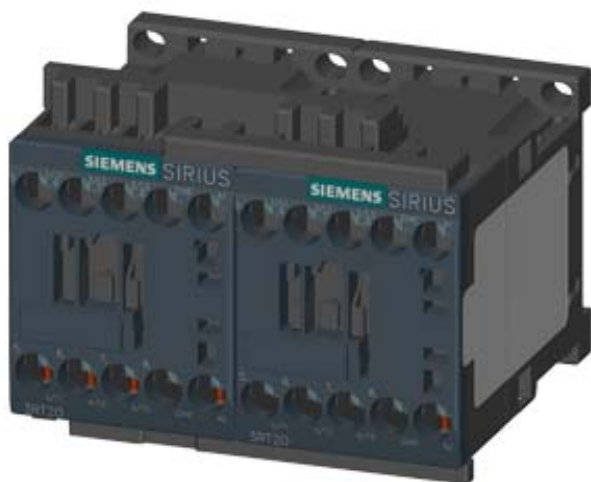


REV. COMBIN., AC3, 4KW/400V AC 230V,
50/60 HZ, 3-POLE,
SZ S00 SCREW TERMINAL ELECTR. AND MECH.
INTERLOCK



General technical data:

product brand name		SIRIUS
Product designation		reversing contactor assembly 3RA23
Product function		reversing contactor
Size of the contactor		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature - during transport - during storage - during operating	°C	-55 ... +80 -55 ... +80 -25 ... +70
Resistance against shock		9.8g / 5 ms and 5.9g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	0.7
Manufacturer article number 1 / of the contactor included in the scope of supply 2 / of the contactor included in the scope of supply - of the RS applied assembly kit		3RT2018-1TP01-0RA0 3RT2018-1TP01-0RA0 3RA2913-2AA1

Mechanical operating cycles as operating time		
• of the main contacts / typical		3,000,000
• of the auxiliary contacts / typical		3,000,000
• of the contactor / typical		3,000,000
• of the contactor with added auxiliary switch block / typical		3,000,000
Communication:		
Product function		
• bus-communication		No
• control circuit interface with IO link		No
Protocol / is supported / AS interface protocol		No
Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	15.4
• at 60 °C ambient temperature / rated value	A	13.7
• at AC-2 / at 400 V / rated value	A	6
• at AC-3 / at 400 V / rated value	A	7.7
• at AC-4 / at 400 V / rated value	A	5.5
• with 1 current path / at DC-1		
• at 24 V / rated value	A	17.1
• at 110 V / rated value	A	1.8
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	17.1
• at 110 V / rated value	A	10.2
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	17.1
• at 110 V / rated value	A	17.1
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	17.1
• at 110 V / rated value	A	0.12
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	17.1
• at 110 V / rated value	A	0.3
• with 3 current paths in series / at DC-3 / at DC-5		

• at 24 V / rated value	A	17.1
• at 110 V / rated value	A	17.1
Service power		
• at AC-2 / at 400 V / rated value	kW	3.4
• at AC-3		
• at 400 V / rated value	kW	3.4
• at 500 V / rated value	kW	3.8
• at 690 V / rated value	kW	4.7
• at AC-4 / at 400 V / rated value	kW	1.7
Off-load operating frequency	1/h	1,500
Frequency of operation		
• with AC-1 / maximum	1/h	875
• with AC-2 / maximum	1/h	642
• with AC-3 / maximum	1/h	642
• with AC-4 / maximum	1/h	214

Control circuit:		
Design of activation		conventional
Design of the surge suppressor		with varistor
Voltage type / of control feed voltage		AC
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• for AC / at 50 Hz / rated value	V	230
• at 50 Hz		
• for AC	V	218 ... 237
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC		0.95 ... 1.03
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.2

Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		
• per direction of rotation		0
• instantaneous switching		0
• lagging switching		0
Number of NO contacts / for auxiliary contacts		

• per direction of rotation		0
• instantaneous switching		0
• leading switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 48 V	A	6
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 48 V	A	2
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	0.3

Short-circuit:

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of assignment 1 / required
- at type of coordination 2 / required
- for short-circuit protection of the auxiliary switch / required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

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
Width	mm	90
Height	mm	68
Depth	mm	73
Distance, to be maintained, to the ranks assembly		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6

• downwards	mm	6
• sideways	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6

Connections:

Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors / for main contacts		2x (20 ... 16), 2x (18 ... 14)
• for auxiliary contacts		
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)

Certificates/approvals:

Verification of suitability		CE / UL / CSA / CCC
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General Product Approval			Declaration of Conformity	Test Certificates	
 CSA		 UL	 EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report
Shipping Approval					
 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS	 PRS
Shipping Approval		other			
 RINA	 RMRS	other	Environmental Confirmations		

UL/CSA ratings

yielded mechanical performance [hp]

- for single-phase squirrel cage motors
 - at 110/120 V / rated value
 - at 230 V / rated value
- for three-phase squirrel cage motors
 - at 200/208 V / rated value
 - at 220/230 V / rated value
 - at 460/480 V / rated value
 - at 575/600 V / rated value

hp	0.28
hp	0.85
hp	1.7
hp	2.5
hp	4.3
hp	6.4

Full-load current (FLA) / for 3-phase motor

- at 480 V / rated value
- at 600 V / rated value

A	6.5
A	7.7

Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

Safety:

B10 value / with high demand rate

- according to SN 31920

1,000,000

Failure rate [FIT] / with low demand rate

- according to SN 31920

FIT 100

Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

% 40
% 75

T1 value / for proof test interval or service life

- according to IEC 61508

a 20

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

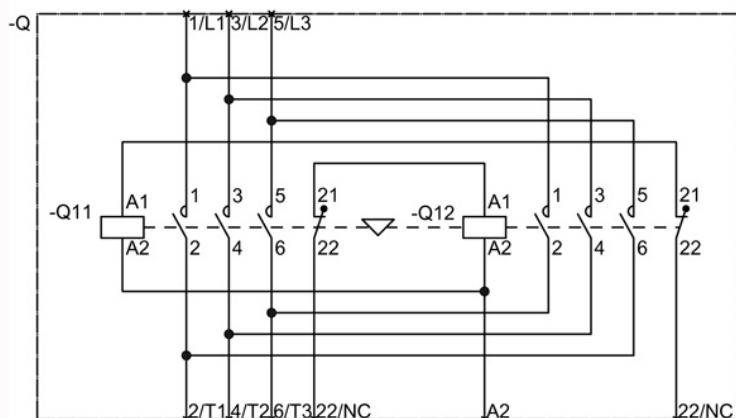
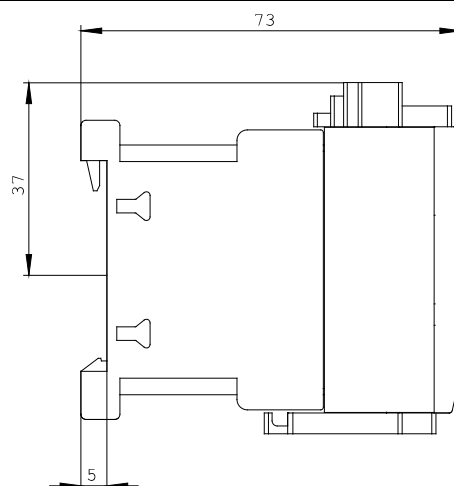
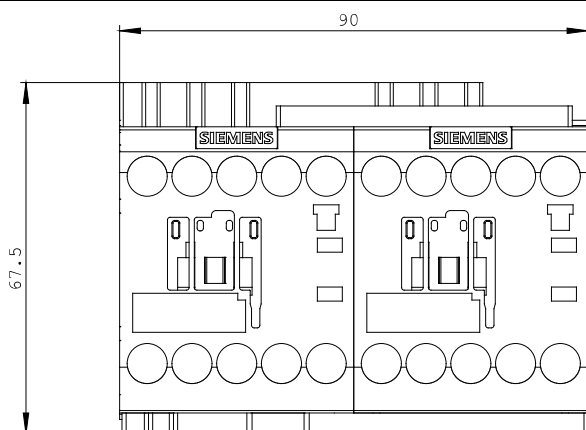
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA2316-8XB30-1TP3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2316-8XB30-1TP3



last change:

Aug 4, 2014