



4NO CONTACTOR, AC1: 22A DC 220V 4-POLE,
4NO, SZ: S00, SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Product extension		Yes No
<ul style="list-style-type: none"> • auxiliary switch • function module for communication 		
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
<ul style="list-style-type: none"> • during storage • during operating 	°C	-55 ... +80 -25 ... +60
Shock resistance		
<ul style="list-style-type: none"> • at rectangular impulse <ul style="list-style-type: none"> • at DC • at sine pulse <ul style="list-style-type: none"> • at DC 		7.3g / 5 ms, 4.7g / 10 ms 11.4g / 5 ms, 7.3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
• of the contactor / typical		30,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
• of the contactor with added electronics-compatible auxiliary switch block / typical		5,000,000
Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		4
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	mm ²	4
• at 60 °C / minimum permissible	mm ²	2.5
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	A	22
• at 60 °C ambient temperature / rated value	A	20
• at AC-2 / at 400 V / rated value	A	12
• at AC-3		
• at 400 V / rated value	A	12
• at AC-4 / at 400 V / rated value	A	8.5
Operating current		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.1
• at 220 V / rated value	A	0.8
• at 440 V / rated value	A	0.6
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	12
• at 220 V / rated value	A	1.6
• at 440 V / rated value	A	0.8
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	20
• at 220 V / rated value	A	20
• at 440 V / rated value	A	1.3
Operating current		
• with 1 current path / at DC-3 / at DC-5		

<ul style="list-style-type: none"> • at 24 V / rated value 	A	20
<ul style="list-style-type: none"> • at 110 V / rated value 	A	0.1
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	20
<ul style="list-style-type: none"> • at 110 V / rated value 	A	0.35
<ul style="list-style-type: none"> • with 3 current paths in series / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	20
<ul style="list-style-type: none"> • at 110 V / rated value 	A	20
<ul style="list-style-type: none"> • at 220 V / rated value 	A	1.5
<ul style="list-style-type: none"> • at 440 V / rated value 	A	0.2
Operating performance		
<ul style="list-style-type: none"> • at AC-1 / at 230 V / rated value 	kW	7.5
<ul style="list-style-type: none"> • at AC-1 / at 400 V / rated value 	kW	13
<ul style="list-style-type: none"> • at AC-2 		
<ul style="list-style-type: none"> • at 400 V / rated value 	kW	5.5
<ul style="list-style-type: none"> • at AC-3 		
<ul style="list-style-type: none"> • at 230 V / rated value 	kW	3
<ul style="list-style-type: none"> • at 400 V / rated value 	kW	5.5
<ul style="list-style-type: none"> • at AC-4 		
<ul style="list-style-type: none"> • at 400 V / rated value 	kW	4
Thermal short-time current / restricted to 10 s	A	96
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	1.2
Off-load operating frequency		
<ul style="list-style-type: none"> • at DC 	1/h	10,000
Frequency of operation		
<ul style="list-style-type: none"> • with AC-1 / maximum 	1/h	1,000
<ul style="list-style-type: none"> • with AC-2 / maximum 	1/h	750
<ul style="list-style-type: none"> • with AC-3 / maximum 	1/h	750
<ul style="list-style-type: none"> • with AC-4 / maximum 	1/h	250
Control circuit/ Control:		
Voltage type / of control feed voltage		DC
Control supply voltage		
<ul style="list-style-type: none"> • for DC / rated value 	V	220
Operating range factor control supply voltage rated value / of the magnet coil		
<ul style="list-style-type: none"> • for DC 		0.8 ... 1.1
Pull-in power / of the solenoid / for DC	W	4
Holding power / of the solenoid / for DC	W	4
Closing delay		

• at DC	ms	30 ... 100
Opening delay		
• at DC	ms	7 ... 13
Arcing time	ms	10 ... 15

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Operating current		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V / rated value	A	10
• at 400 V / rated value	A	3
Operating current / at DC-12		
• at 48 V / rated value	A	6
• at 60 V / rated value	A	6
• at 110 V / rated value	A	3
• at 125 V / rated value	A	2
• at 220 V / rated value	A	1
• at 440 V / rated value	A	0.3
• at 600 V / rated value	A	0.15
Operating current / at DC-13		
• at 24 V / rated value	A	10
• at 48 V / rated value	A	2
• at 60 V / rated value	A	2
• at 110 V / rated value	A	1
• at 220 V / rated value	A	0.3
• at 600 V / rated value	A	0.1

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

hp	0.33
hp	1
hp	2
hp	3
hp	5

<ul style="list-style-type: none"> • at 575/600 V / rated value 	hp	7.5
Full-load current (FLA) / for 3-phase motor <ul style="list-style-type: none"> • at 480 V / rated value • at 600 V / rated value 	A	7.6
	A	9
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

Short-circuit:

Design of the fuse link

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

fuse gL/gG: 10 A

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

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

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 according to DIN EN 50022
Mounting type / series installation		Yes
Width	mm	45
Height	mm	57.5
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sideways	mm	0

Connections/ terminals:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit
- for main contacts / finely stranded / with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts / finely stranded / with conductor end processing
- for AWG conductors / for auxiliary contacts

screw-type terminals

screw-type terminals

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

Safety related data:

B10 value / with high demand rate

- according to SN 31920

1,000,000

T1 value / for proof test interval or service life

- according to IEC 61508

a

20

Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
• with high demand rate / according to SN 31920	%	73
Failure rate [FIT] / with low demand rate		
• according to SN 31920	FIT	100
Product function		
• mirror contact to IEC 60947-4-1		Yes
• comment		with 3RH29
• positively driven operation to IEC 60947-5-1		No

Certificates/ approvals:

General Product Approval

Functional Safety / Safety of Machinery

Declaration of Conformity



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

Test Certificates

[Special Test Certificate](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS

[Confirmation](#)



VDE

[Environmental Confirmations](#)

Further information:

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

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

Industry Mall (Online ordering system)

<http://mall.industry.siemens.com/>

Cax online generator

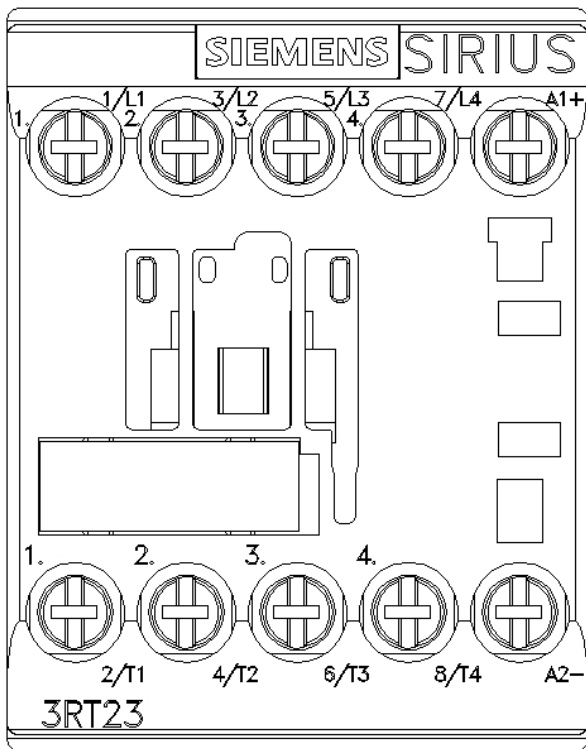
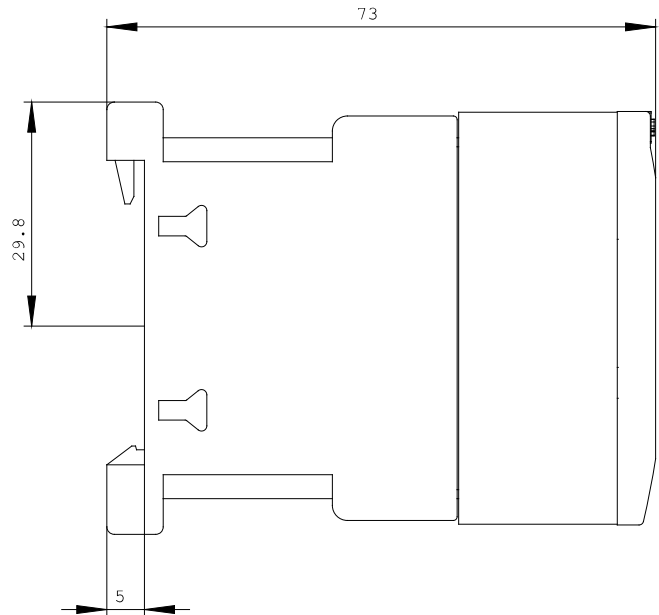
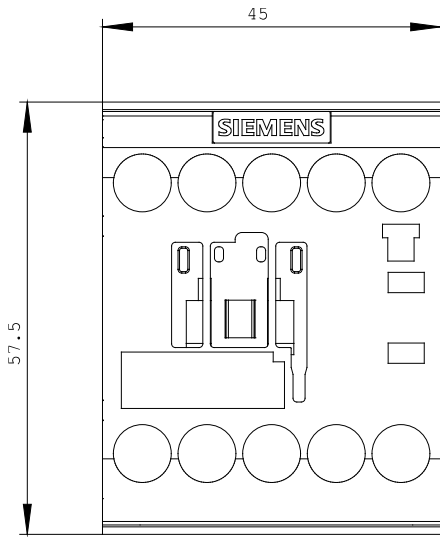
<http://www.siemens.com/cax>

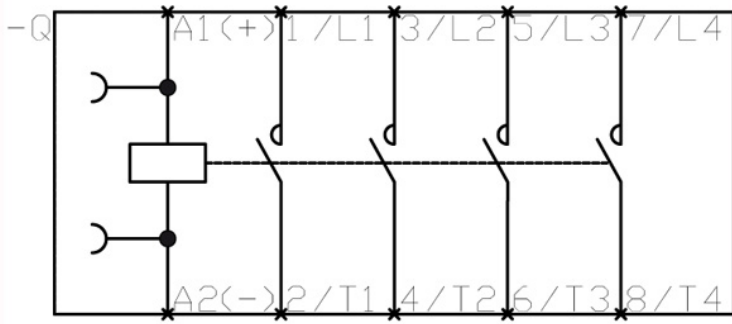
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2317-1BM40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2317-1BM40





last change:

Aug 4, 2014