



CONTACTOR, AC-3, 11KW/400V, 1NO+1NC,
AC 42V 50HZ, 3-POLE,
SZ S0 SCREW TERMINAL

General technical data:

product brand name		SIRIUS
Size of the contactor		S0
Product extension		
• auxiliary switch		Yes
• function module for communication		No
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		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Shock resistance		
• at rectangular impulse		
• at AC		8,3g / 5 ms, 5,3g / 10 ms
• at sine pulse		
• at AC		13,5g / 5 ms, 8,3g / 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		10,000,000
• 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		3
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	mm ²	10
• at 60 °C / minimum permissible	mm ²	10
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	A	40
• at 60 °C ambient temperature / rated value	A	35
• at AC-2 / at 400 V / rated value	A	25
• at AC-3		
• at 400 V / rated value	A	25
• at 500 V / rated value	A	18
• at 690 V / rated value	A	13
• at AC-4 / at 400 V / rated value	A	15.5
Operational current / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	A	9
• at 690 V / rated value	A	9
Operating current		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	4.5
• at 220 V / rated value	A	1
• at 440 V / rated value	A	0.4
• at 600 V / rated value	A	0.25
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	35
• at 220 V / rated value	A	5
• at 440 V / rated value	A	1
• at 600 V / rated value	A	0.8

<ul style="list-style-type: none"> • with 3 current paths in series / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value 	A	35
	A	35
	A	35
	A	2.9
	A	1.4
Operating current		
<ul style="list-style-type: none"> • with 1 current path / at DC-3 / at DC-5 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • with 2 current paths in series / at DC-3 / at DC-5 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • with 3 current paths in series / at DC-3 / at DC-5 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value 	A	20
	A	2.5
	A	1
	A	0.09
	A	0.06
	A	35
	A	15
	A	3
	A	0.27
	A	0.16
	A	35
	A	35
	A	10
	A	0.6
	A	0.6
Operating performance		
• at AC-1 / at 230 V / rated value	kW	13.3
• at AC-1 / at 400 V / rated value	kW	23
• at AC-1 / at 690 V / rated value	kW	40
• at AC-2 <ul style="list-style-type: none"> • at 400 V / rated value 	kW	11
• at AC-3 <ul style="list-style-type: none"> • at 230 V / rated value • at 400 V / rated value • at 690 V / rated value 	kW	5.5
	kW	11
	kW	11
• at AC-4 <ul style="list-style-type: none"> • at 400 V / rated value 	kW	7.5
Operating performance / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	kW	4.4
• at 690 V / rated value	kW	7.7

Thermal short-time current / restricted to 10 s	A	200
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	1.6
Off-load operating frequency • at AC	1/h	5,000
Frequency of operation • with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	750
• with AC-3 / maximum	1/h	750
• with AC-4 / maximum	1/h	250

Control circuit/ Control:

Voltage type / of control feed voltage		AC
Control supply voltage • at 50 Hz / at AC / rated value	V	42
Operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz / for AC		0.8 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	77
Apparent holding power / of the solenoid / for AC	V·A	9.8
Inductive power factor • with the pull-in power of the coil		0.82
• with the pull-in power of the coil		0.25
Closing delay • at AC	ms	8 ... 40
Opening delay • at AC	ms	4 ... 16
Arcing time	ms	10 ... 10
Residual current / of electronics / for control with signal <0> • at 230 V / with AC / maximum permissible	mA	7
• at 24 V / with DC / maximum permissible	mA	16

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		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
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
• at 500 V / rated value	A	2
• at 690 V / rated value	A	1
Operating current / at DC-12		
• at 24 V / rated value	A	10
• 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 125 V / rated value	A	0.9
• at 220 V / rated value	A	0.3
• at 440 V / rated value	A	0.14
• 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	hp	2
• at 230 V / rated value	hp	3
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	5
• at 220/230 V / rated value	hp	7.5
• at 460/480 V / rated value	hp	15
• at 575/600 V / rated value	hp	20
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	A	21
• at 600 V / rated value	A	22
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		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		

- with type of assignment 1 / required
- at type of coordination 2 / required

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

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

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	85
Depth	mm	97
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 (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²

2x (16 ... 12), 2x (14 ... 8)

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

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

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
- with high demand rate / according to SN 31920

%

40

%

73

Failure rate [FIT] / with low demand rate

- according to SN 31920

FIT

100

Product function

- mirror contact to IEC 60947-4-1
- positively driven operation to IEC 60947-5-1

Yes

No

Certificates/ approvals:

General Product Approval	EMC	Functional Safety / Safety of Machinery
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[Type Examination](#)

Declaration of Conformity

Test Certificates



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



Shipping Approval

other



[Confirmation](#)



[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

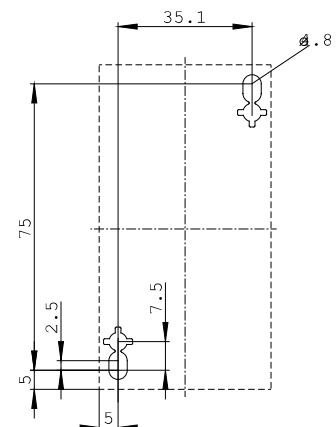
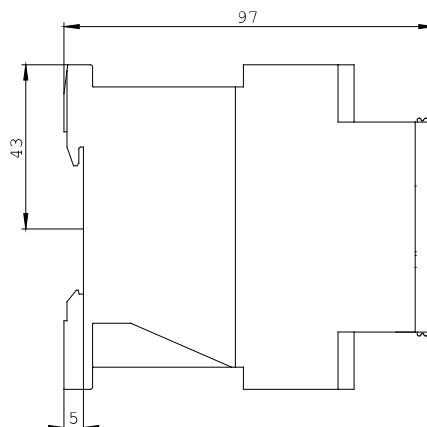
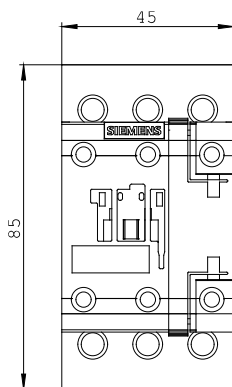
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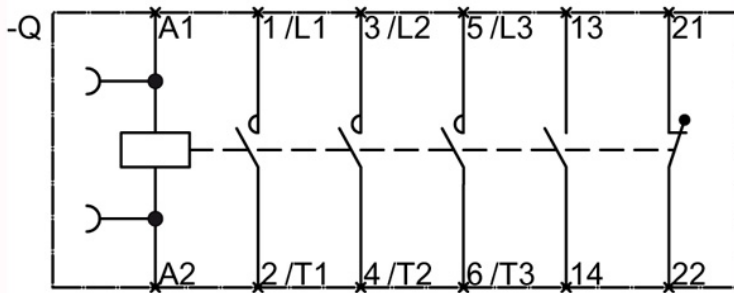
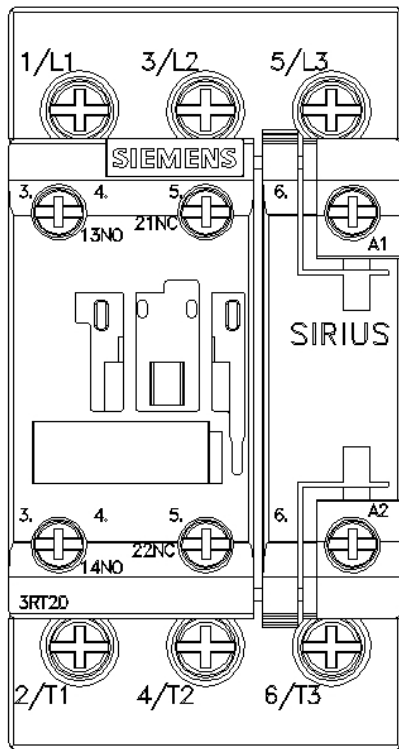
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2026-1AD00/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2026-1AD00





last change:

Aug 4, 2014