



2NO+2NC CONTACTOR,
AC3: 11KW DC 220V 4-POLE, 2NO+2NC,
SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.

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 DC		10g / 5 ms, 7,5g / 10 ms
• at sine pulse		
• at DC		15g / 5 ms, 10g / 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		2
Number of NO contacts / for main contacts		2
Operational 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
Operating current / at AC-2 / at AC-3		
• at 400 V		
• per NO contact / rated value	A	25
• per NC contact / rated value	A	20
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
• 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
Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	20
• per NC contact / rated value	A	20
• at 110 V		
• per NO contact / rated value	A	2.5
• per NC contact / rated value	A	1.25
• at 220 V		
• per NO contact / rated value	A	1
• per NC contact / rated value	A	0.5
• at 440 V		

• per NO contact / rated value	A	0.09
• per NC contact / rated value	A	0.045
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	35
• per NC contact / rated value	A	35
• at 110 V		
• per NO contact / rated value	A	15
• per NC contact / rated value	A	7.5
• at 220 V		
• per NO contact / rated value	A	3
• per NC contact / rated value	A	1.5
• at 440 V		
• per NO contact / rated value	A	0.27
• per NC contact / rated value	A	0.135
Operating performance		
• at AC-1		
• at 230 V / rated value	kW	15
• at 400 V / rated value	kW	26
• at AC-2 / at AC-3		
• at 230 V		
• per NO contact / rated value	kW	5.5
• per NC contact / rated value	kW	5.5
• at 400 V		
• per NO contact / rated value	kW	11
• per NC contact / rated value	kW	7.5
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
• at DC	1/h	1,500
Frequency of operation		
• with AC-1 / maximum	1/h	1,000
• at AC-2 / at AC-3 / maximum	1/h	750
Control circuit/ Control:		
Voltage type / of control feed voltage		DC
Control supply voltage		
• for DC / rated value	V	220
operating range factor control supply voltage rated value / of the magnet coil		

• for DC		0.8 ... 1.1
Pull-in power / of the solenoid / for DC	W	5.9
Holding power / of the solenoid / for DC	W	5.9
Closing delay		
• at DC	ms	50 ... 170
Opening delay		
• at DC	ms	15 ... 17.5
Arcing time	ms	10 ... 10

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 AC-15 / at 400 V / rated value	A	3
• at AC-15 / at 500 V / rated value	A	2
• at AC-15 / 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 • at 230 V / rated value	hp	2
	hp	3
	Contact rating designation / for auxiliary contacts / according to UL	

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: 63 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 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 according to DIN EN 50022
Mounting type / series installation		Yes
Width	mm	61
Height	mm	85
Depth	mm	107

Connections/ terminals:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

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 (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



CCC



CSA



UL



C-TICK

[Type Examination](#)

Declaration of Conformity

Test Certificates



EG-Konf.

[Special Test
Certificate](#)

[Type Test
Certificates/Test
Report](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS

[Confirmation](#)



VDE

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Confirmations](#)

Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator

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



