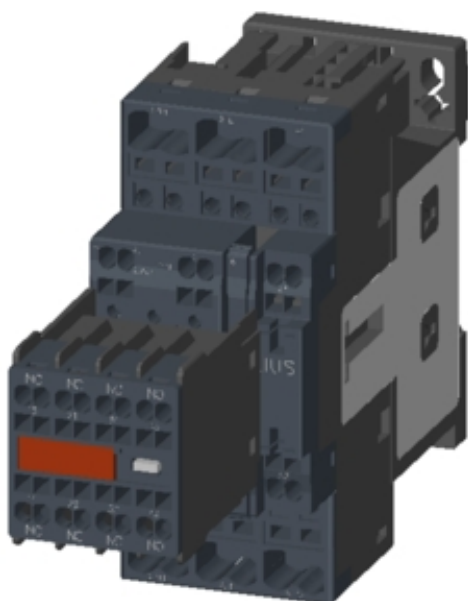




CONTACTOR, AC-3, 15KW/400V, 2NO+2NC,
AC 110V 50HZ 120V 60HZ,
W. PLUGGED-IN VARISTOR 3POLE,
SZ. S0 SPRING-LOADED TERMINAL

General technical data:

product brand name		SIRIUS
Size of the contactor		S0
Product extension		
• auxiliary switch		No
• 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	50
• at 60 °C ambient temperature / rated value	A	42
• at AC-2 / at 400 V / rated value	A	32
• at AC-3		
• at 400 V / rated value	A	32
• at 500 V / rated value	A	32
• at 690 V / rated value	A	21
• at AC-4 / at 400 V / rated value	A	22
Operational current / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	A	12
• at 690 V / rated value	A	12
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

• with 3 current paths in series / at DC-1 • 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		
• with 1 current path / at DC-3 / at DC-5 • 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 • 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 • 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	16
• at AC-1 / at 400 V / rated value	kW	28
• at AC-1 / at 690 V / rated value	kW	48
• at AC-2 • at 400 V / rated value	kW	15
• at AC-3 • at 230 V / rated value • at 400 V / rated value • at 690 V / rated value	kW	7.5
	kW	15
	kW	18.5
• at AC-4 • at 400 V / rated value	kW	11
Operating performance / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	kW	6
• at 690 V / rated value	kW	10.3

Thermal short-time current / restricted to 10 s	A	260
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	2.7
Off-load operating frequency • at AC	1/h	5,000
Frequency of operation • with AC-1 / maximum • with AC-2 / maximum • with AC-3 / maximum • with AC-4 / maximum	1/h 1/h 1/h 1/h	1,000 750 750 250

Control circuit/ Control:		
Design of the surge suppressor		with varistor
Voltage type / of control feed voltage		AC
Control supply voltage • at 50 Hz / at AC / rated value • at 60 Hz / at AC / rated value	V V	110 120
Operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz / for AC • at 60 Hz / for AC		0.8 ... 1.1 0.85 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	87
Apparent holding power / of the solenoid / for AC	V·A	9.8
Inductive power factor • with the pull-in power of the coil • with the pull-in power of the coil		0.82 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 • at 24 V / with DC / maximum permissible	mA mA	7 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		2
Number of NO contacts / for auxiliary contacts / instantaneous switching		2
Operating current		

• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V / rated value	A	6
• 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	6
• 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	5
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	10
• at 220/230 V / rated value	hp	10
• at 460/480 V / rated value	hp	20
• at 575/600 V / rated value	hp	25
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	A	27
• at 600 V / rated value	A	27
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: 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	102
Depth	mm	145
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 main contacts / finely stranded / without conductor final cutting • for AWG conductors / for main contacts • for auxiliary contacts / finely stranded / with conductor end processing • for auxiliary contacts / finely stranded / without conductor final cutting • for AWG conductors / for auxiliary contacts		spring-loaded terminals spring-loaded terminals 2x (1 ... 6 mm²) 2x (1 ... 6 mm²) 2x (18 ... 8) 2x (0.5 ... 1.5 mm²) 2x (0.5 ... 2.5 mm²) 2x (20 ... 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](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS

[Confirmation](#)



VDE

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

Industry Mall (Online ordering system)

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Cax online generator

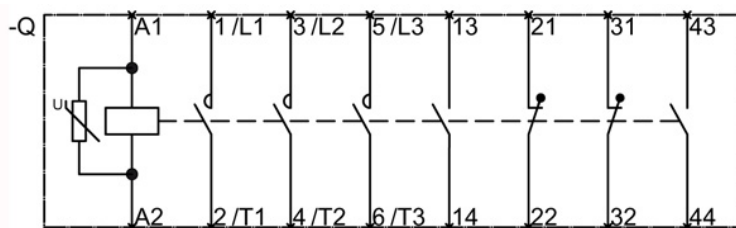
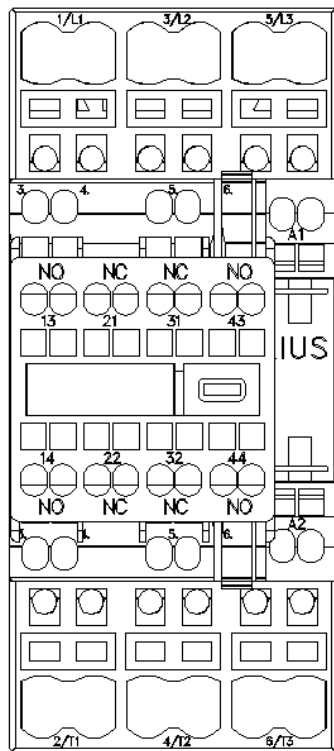
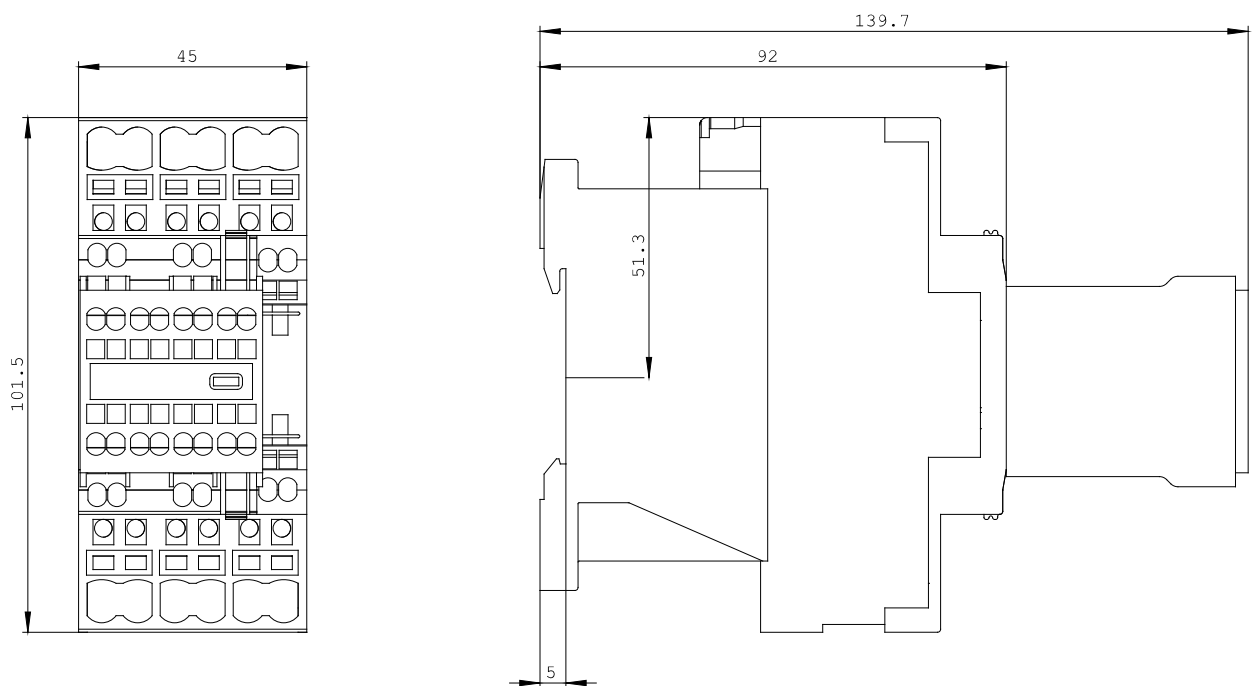
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2027-2CK64-3MA0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2027-2CK64-3MA0



last change:

Aug 4, 2014