



CONTACTOR,
160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 200-
277V AUXILIARY CONTACTS 2NO+2NC 3-POLE,
SIZE S10 BAR CONNECTIONS ELECTRONIC OPERATING
MECHANISM WITH 24 V DC PLC INTERFACE CAGE
CLAMP TERMINAL

General technical data:

product brand name		SIRIUS
Size of contactor		S10
Protection class IP / on the front		IP00
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
• during operation	°C	-25 ... +60
Mechanical service life (switching cycles)		
• 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
Operating current		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	A	330
• at ambient temperature 60 °C / Rated value	A	300

• at AC-3 / at 400 V / Rated value	A	300
• at AC-4 / at 400 V / Rated value	A	280
Operating current / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / Rated value	A	125
• at 690 V / Rated value	A	115
Operating current		
• with 1 current path / at DC-1		
• at 24 V / Rated value	A	300
• at 110 V / Rated value	A	33
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	A	300
• at 110 V / Rated value	A	300
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	A	300
• at 110 V / Rated value	A	300
Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	A	300
• at 110 V / Rated value	A	3
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	300
• at 110 V / Rated value	A	300
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	300
• at 110 V / Rated value	A	300
Operating power		
• at AC-1		
• at 400 V / Rated value	kW	197
• at AC-2		
• at 400 V / Rated value	kW	171
• at AC-3		
• at 400 V / Rated value	kW	171
• at 500 V / Rated value	kW	215
• at 690 V / Rated value	kW	280
• at AC-4		
• at 400 V / Rated value	W	160,000
Operating power / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / Rated value	kW	71
• at 690 V / Rated value	kW	112

Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	22
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Control circuit/ Control:		
Design of the surge suppressor		with varistor
Type of voltage / of the control supply voltage		AC/DC
Control supply voltage		
• for DC		
• Rated value	V	200 ... 277
• with AC / at 50 Hz		
• Rated value	V	200 ... 277
• with AC / at 60 Hz		
• Rated value	V	200 ... 277
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC / at 50 Hz		0.8 ... 1.1
• with AC / at 60 Hz		0.8 ... 1.1
• for DC		0.8 ... 1.1
Apparent pick-up power / of the magnet coil / with AC	V·A	530
Apparent holding power / of the magnet coil / with AC	V·A	5
Inductive power factor		
• with closing power of the coil		0.8
• with the holding power of the coil		0.4
Closing power / of the magnet coil / for DC	W	580
Holding power / of the magnet coil / for DC	W	3.8

Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous contact		2
Number of NO contacts / for auxiliary contacts / instantaneous contact		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
Operating current / at DC-12		
• at 60 V / Rated value	A	6
• at 110 V / Rated value	A	3
• at 220 V / Rated value	A	1
Operating current / at DC-13		
• at 24 V / Rated value	A	10

- at 60 V / Rated value
- at 110 V / Rated value
- at 220 V / Rated value

A	2
A	1
A	0.3

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
 - with type of assignment 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 500 A

fuse gL/gG: 400 A

Installation/ mounting/ dimensions:

Mounting type

screw fixing

Mounting type / Side-by-side mounting

Yes

Width

mm 145

Height

mm 210

Depth

mm 202

Spacing required / for grounded parts

mm 10

Connections/ terminals:

Design of the electrical connection

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

Cage Clamp terminals

Cage Clamp terminals

Type of connectable conductor cross-section

- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with core end processing
 - without core end processing
- for AWG conductors / for auxiliary contacts

2/0 ... 500 kcmil










2x (0.25 ... 2.5 mm²)

2x (0.25 ... 1.5 mm²)

2x (0.25 ... 2.5 mm²)

2x (24 ... 14)

Certificates/ approvals:

General Product Approval				Functional Safety / Safety of Machinery	Declaration of Conformity
 CCC	 CSA		 UL	Type Examination	 EG-Konf.
Test Certificates		Shipping Approval			
Special Test Certificate	 ABS	 DNV	 GL	 RMRS	
other					
Confirmation	other	Environmental Confirmations			

Further information:

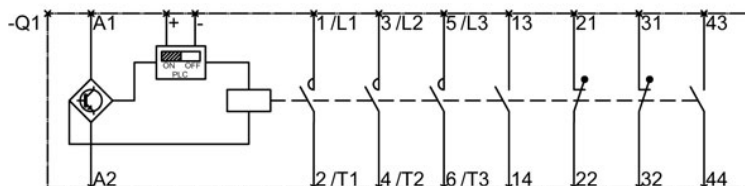
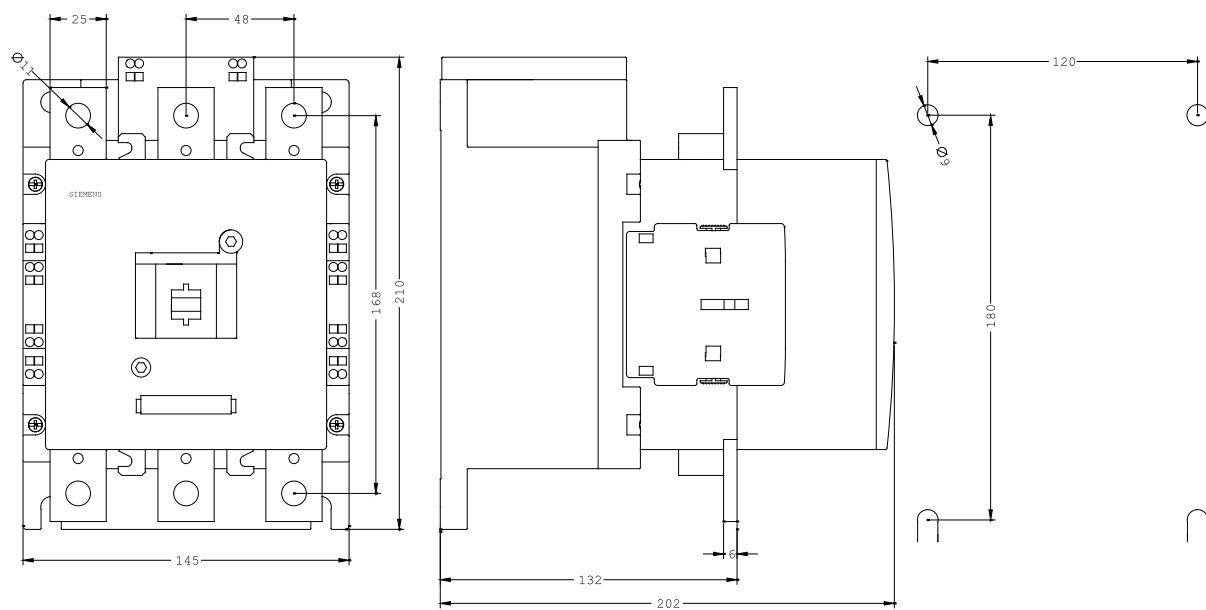
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last change:

Nov 11, 2014