

CONTACTOR,
250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220-
240V AUXILIARY CONTACTS 2NO+2NC 3-POLE,
SIZE S12 BAR CONNECTIONS CONVENT. OPERATING
MECHANISM SCREW TERMINAL

General technical data:

product brand name		SIRIUS
Size of the contactor		S12
Protection class IP / on the front		IP00
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature / during operating	°C	-25 ... +60
Mechanical operating cycles as operating time		
<ul style="list-style-type: none"> • of the contactor / typical 		10,000,000
<ul style="list-style-type: none"> • of the contactor with added auxiliary switch block / typical 		10,000,000
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • at AC-1 / at 400 V <ul style="list-style-type: none"> • at 40 °C ambient temperature / rated value • at 60 °C ambient temperature / rated value 	A	610
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	A	550
<ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value 	A	500
<ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value 	A	430
<ul style="list-style-type: none"> • with 1 current path / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	400
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	33
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	400
<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 	A	400
<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 	A	400

<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 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 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 	A	400
	A	3
	A	400
	A	400
	A	400
	A	400
Service power		
<ul style="list-style-type: none"> at AC-2 / at 400 V / rated value at AC-3 / at 400 V / rated value at AC-4 / at 400 V / rated value 	kW	291
	kW	291
	W	250,000
Active power loss / per conductor / typical	W	55

Control circuit:

Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage / 1		
<ul style="list-style-type: none"> for DC <ul style="list-style-type: none"> initial rated value final rated value at 50 Hz / for AC <ul style="list-style-type: none"> initial rated value final rated value at 60 Hz / for AC <ul style="list-style-type: none"> initial rated value final rated value 	V	220
	V	240
	V	220
	V	240
	V	220
	V	240
Operating range factor control supply voltage rated value / of the magnet coil		
<ul style="list-style-type: none"> at 50 Hz <ul style="list-style-type: none"> for AC at 60 Hz <ul style="list-style-type: none"> for AC for DC 		0.8 ... 1.1
		0.8 ... 1.1
		0.8 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	830
Apparent holding power / of the solenoid / for AC	V·A	9.2
Inductive power factor / with the pull-in power of the coil		0.9
Inductive power factor / with the pull-in power of the coil		0.9
Pull-in power / of the solenoid / for DC	W	920

Holding power / of the solenoid / for DC	W	10
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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 / of the auxiliary contacts		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	0.3

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		fuse gL/gG: 630 A
• at type of coordination 2 / required		fuse gL/gG: 500 A

Installation/mounting/dimensions:

Type of mounting		screw fixing
series installation		Yes
Width	mm	160
Height	mm	214
Depth	mm	225
Distance, to be maintained, to earthed part / sideways	mm	10

Connection type:

Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals

Type of the connectable conductor cross-section

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

2/0 ... 500 kcmil

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals:**General Product Approval****Functional Safety /
Safety of
Machinery****Declaration of
Conformity**

CCC



CSA



GOST



UL

[Type Examination](#)

EG-Konf.

Test Certificates**Shipping Approval**[other](#)[Special Test
Certificate](#)

ABS



DNV

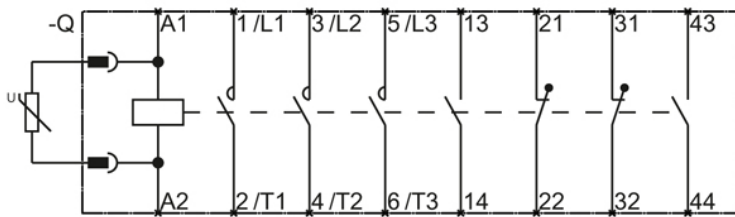
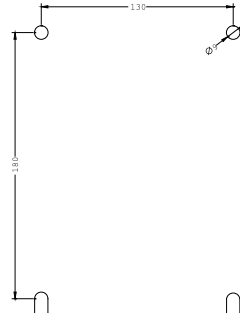
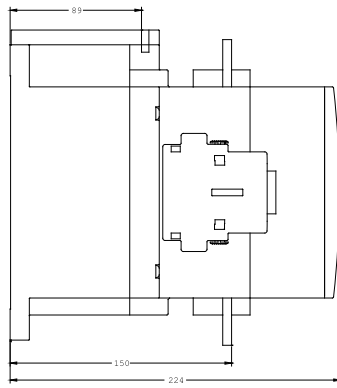
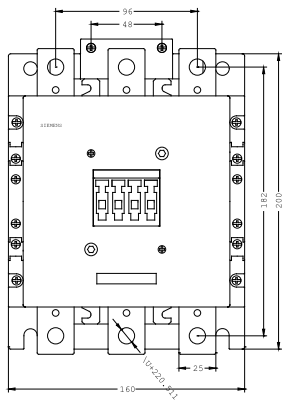


GL



RMRS

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last change:

Sep 24, 2012