



PROCESSING UNIT FOR FULL MOTOR PROTECTION
 SIZE S00...S12,
 CLASS 5...30 STAND-ALONE INSTALLATION MAIN
 CIRCUIT: -- AUX. CIRCUIT: SCREW CONNECTION
 MANUAL-AUTOMATIC-RESET

General technical details:

product brand name		SIRIUS
product designation		solid-state overload relay
Protection class IP / on the front		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	300
Adjustable response current • of the current-dependent overload release	A	0.3 ... 630
EMC emitted interference		degree of severity A according to EN 55011 (CISPR 11) and EN 55022 (CISPR 22)
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-earth SURGE		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE		1 kV (line to line) corresponds to degree of severity 3
Resistance against shock		15g / 11 ms
Impulse voltage resistance / rated value	kV	4
Active power loss / total / typical	W	0.5
type of protection		PTB 05 ATEX 3022 Ex II (2) GD
Trip class		CLASS 5, 10, 20 and 30 adjustable

Item designation		
<ul style="list-style-type: none"> • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F F
Protection against electrical shock		finger-safe

Control circuit:		
type of voltage		AC/DC
Control supply voltage		
<ul style="list-style-type: none"> • at 50 Hz / at AC / rated value • at 60 Hz / at AC / rated value • for DC / rated value 	V V V	24 ... 240 24 ... 240 24 ... 240
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals

Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	1,000
Supply voltage frequency		
<ul style="list-style-type: none"> • rated value 	Hz	50 ... 60
Service power / for three-phase servomotors		
<ul style="list-style-type: none"> • rated value 	kW	0.09 ... 450
Service power / for three-phase servomotors / at 400 V / at 50 Hz		
<ul style="list-style-type: none"> • for AC three-phase 	kW	0.09 ... 450

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)
Operating current / of the auxiliary contacts		
<ul style="list-style-type: none"> • at AC-15 <ul style="list-style-type: none"> • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V • at DC-13 <ul style="list-style-type: none"> • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V 	A A A A A A A A A A	6 6 6 6 3 2 0.55 0.3 0.3 0.2
Number of NC contacts		2
Number of NO contacts		2

Number of change-over switches		0
Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
Mechanical design:		
Built in orientation		any
Type of mounting		stand-alone installation
Size of the contactor / can be combined / company-specific		S00 ... S12
Size of overload relay		S00 ... S12
Width	mm	45
Height	mm	111
Depth	mm	95
Distance, to be maintained, to the ranks assembly		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	0
• backwards	mm	0
• downwards	mm	0
Distance, to be maintained, to earthed part		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	6
• backwards	mm	0
• downwards	mm	0
Distance, to be maintained, conductive elements		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	6
• backwards	mm	0
• downwards	mm	0
Ambient conditions:		
Ambient temperature		
• during operating	°C	-25 ... +60
Ambient temperature		
• during storage	°C	-40 ... +80
Ambient temperature		
• during transport	°C	-40 ... +80
Relative humidity / during operating phase / maximum	%	100

Installation altitude / at a height over sea level / maximum	m	2,000
Protection class IP		IP20

Connections:

Product function / removable terminal for auxiliary and control circuit		Yes
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> • with conductor end processing • for AWG conductors / for auxiliary contacts 		0.5 ... 4 mm ² , 2x (0.5 ... 2.5 mm ²) 0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²) 2x (24 ... 16)

Certificates/approvals:

Verification of suitability	CSA / UL / CCC / GL / LRS / DNV / ABS		
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General Product Approval	For use in hazardous locations	Test Certificates
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[ROSTEST](#)



[Manufacturer](#)

Shipping Approval	other
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[Manufacturer](#)

Further information:

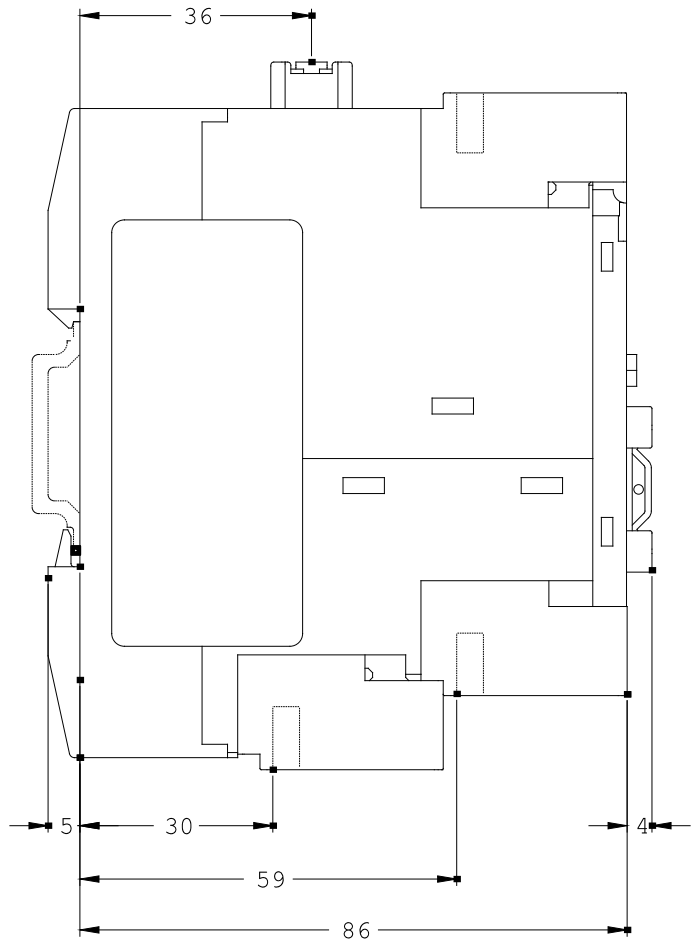
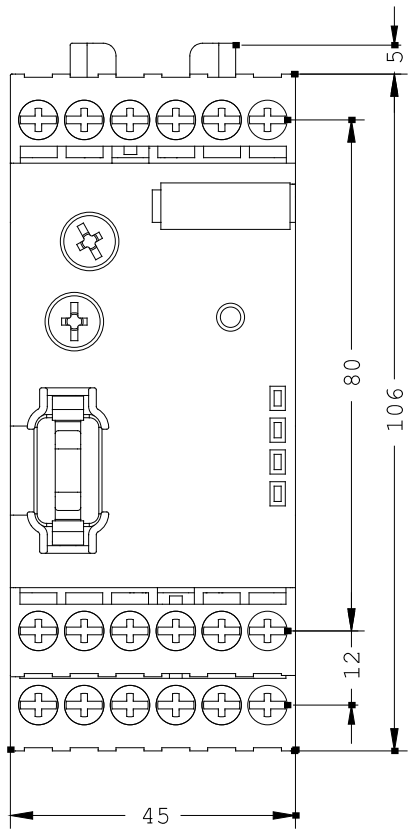
- Information- and Downloadcenter (Catalogs, Brochures,...)**
<http://www.siemens.com/industrial-controls/catalogs>

- Industry Mall (Online ordering system)**
<http://www.siemens.com/industrial-controls/mall>

- CAX-Online-Generator**
<http://www.siemens.com/cax>

- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<http://support.automation.siemens.com/WW/view/en/3RB2283-4AA1/all>

- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2283-4AA1



last change:

Feb 6, 2012