

OVERLOAD RELAY 55...250 A FOR MOTOR
 PROTECTION SIZE S10/S12,
 CLASS 5...30 MOUNT. ONTO CONT./ STAND-ALONE
 MAIN CIRCUIT: BAR CONNECTION AUX. CIRCUIT:
 SPRINGLOAD. TERM. MANUAL-AUTOMATIC-RESET INT.
 EARTH FAULT DETECTION

General technical data:		
product brand name		SIRIUS
Product designation		solid-state overload relay
Size of overload relay		S10, S12
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		Yes
Impulse voltage resistance / rated value	kV	8
Protection class IP		IP20
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe with cover
Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		15g / 11 ms
Ambient temperature		
• during transport	°C	-40 ... +80
• during storage	°C	-40 ... +80
• during operating	°C	-25 ... +60
Relative humidity / during operating phase / maximum	%	100
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 / according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3
Type of protection		PTB 06 ATEX 3001 Ex II (2) GD
Active power loss / total / typical	W	0.05
Size of the contactor / can be combined / company-specific		S10, S12

Main circuit:

Operating current / of the fuse link / rated value	A	400
Type of assignment		2

Auxiliary circuit:

Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of changeover contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
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	4
	A	4
	A	4
	A	4
	A	3
	A	2
	A	0.55
	A	0.3
	A	0.3
	A	0.11

Protective and monitoring functions:

Trip class		CLASS 5, 10, 20 and 30 adjustable
Adjustable response current / of the current-dependent overload release	A	55 ... 250

Installation/ mounting/ dimensions:

Mounting type		direct mounting / stand-alone installation
mounting position		any
Depth	mm	156
Height	mm	147
Width	mm	145

Connections/ terminals:

Design of the electrical connection		
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 		busbar connection spring-loaded terminals
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> • for auxiliary contacts 		

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

2x (0.25 ... 1.5 mm²)

2x (0.25 ... 1.5 mm²)

2x (24 ... 16)

Certificates/ approvals:

General Product Approval



CCC



CSA



UL



C-TICK



ATEX

EMC

For use in hazardous locations

Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



ABS



DNV



GL



LRS



RINA

other

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

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

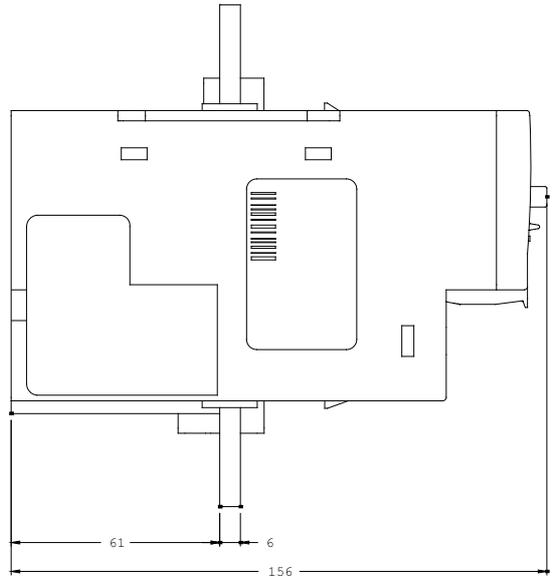
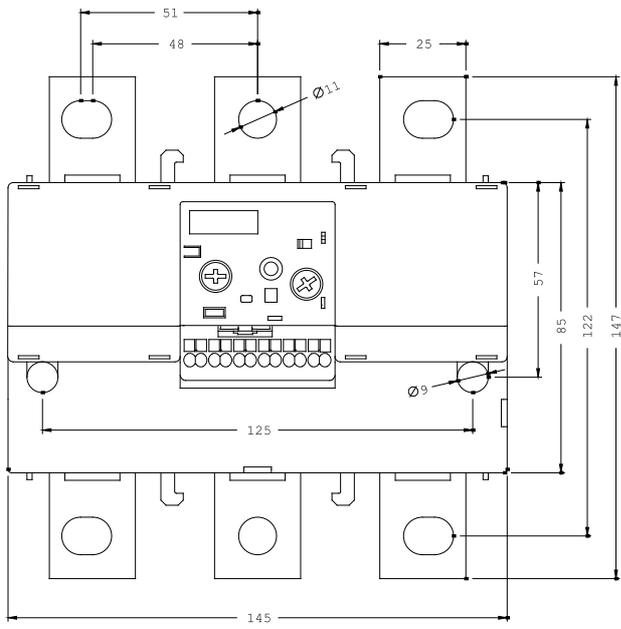
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB2163-4GF2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2163-4GF2



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