



OVERLOAD RELAY 12.5...50 A FOR MOTOR
PROTECTION SIZE S3,
CLASS 5...30 FOR MOUNTING ONTO CONT. MAIN
CIRCUIT: SCREW 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		S3
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
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		S3

Main circuit:		
Operating current / of the fuse link / rated value	A	160
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		
• at AC-15		
• at 24 V	A	4
• at 110 V	A	4
• at 120 V	A	4
• at 125 V	A	4
• at 230 V	A	3
• at DC-13		
• at 24 V	A	2
• at 60 V	A	0.55
• at 110 V	A	0.3
• at 125 V	A	0.3
• at 220 V	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	12.5 ... 50

Installation/ mounting/ dimensions:		
Mounting type		direct mounting
mounting position		any
Depth	mm	124

Height	mm	106
Width	mm	70

Connections/ terminals:

Design of the electrical connection

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

screw-type terminals
spring-loaded terminals

Type of the connectable conductor cross-section

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

2x (2.5 ... 16 mm²)

2x (2.5 ... 35 mm²), 2.5 ... 50 mm²
2x (10 ... 50 mm²), 10 ... 70 mm²
2x (10 ... 1/0), 1x (10 ... 2/0)

2x (0.25 ... 1.5 mm²)

2x (0.25 ... 1.5 mm²)
2x (24 ... 16)

Certificates/ approvals:

General Product Approval

EMC

For use in hazardous locations

Test Certificates



CCC



CSA



UL



C-TICK



ATEX

[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,...)

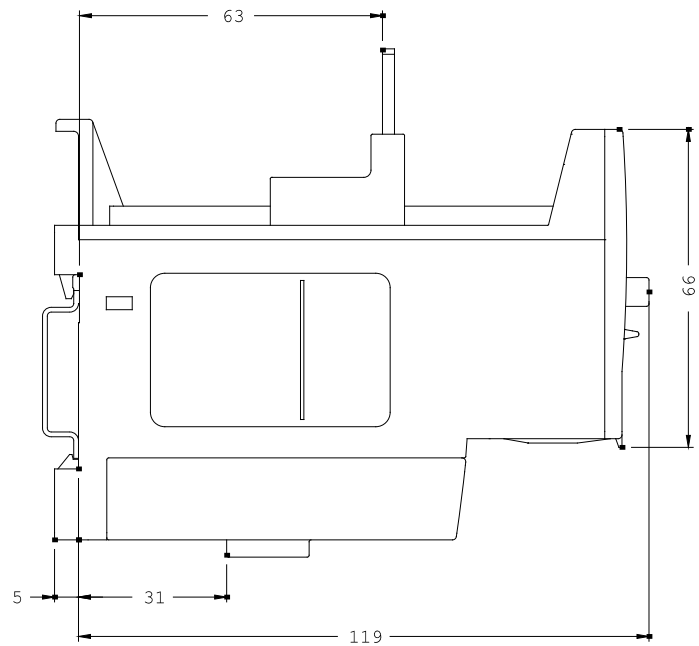
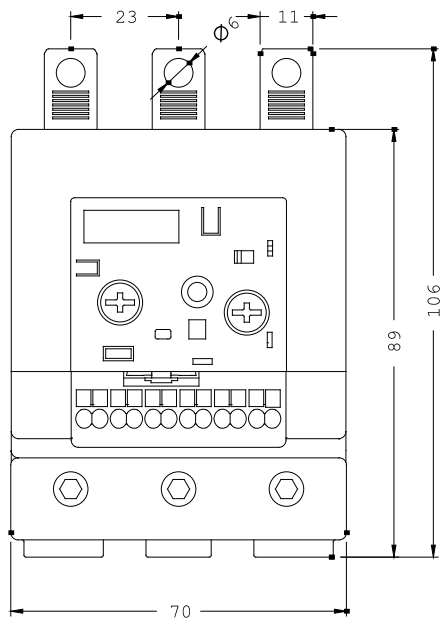
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

Cax online generator

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



last change:

Jun 16, 2014