



OVERLOAD RELAY 70...90 A FOR MOTOR PROTECTION
SIZE S3,
CLASS 10 FOR INDIVID. MOUNTING MAIN CIRCUIT:
SCREW CONN. AUX. CIRCUIT: SCREW CONN. MANUAL-
AUTOMATIC-RESET

General technical data:

product brand name		SIRIUS
Product designation		thermal overload relay
Size of overload relay		S3
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		No
Impulse voltage resistance / rated value	kV	8
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		8g / 10 ms
Ambient temperature		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operating	°C	-20 ... +70
Relative humidity / during operating phase / maximum	%	100
Type of protection		DMT 98 ATEX G 001
Active power loss / total / typical	W	16.5
Size of the contactor / can be combined / company-specific		S3

Main circuit:		
Operating current / of the fuse link / rated value	A	160
Service power / at AC-3		
• at 400 V	kW	45
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, quick: 10 A
Operating current / of the auxiliary contacts / at AC-15		
• at 24 V	A	3
• at 110 V	A	3
• at 120 V	A	3
• at 125 V	A	3
• at 230 V	A	2
• at 400 V	A	1
Operating current / of the auxiliary contacts / at DC-13		
• at 24 V	A	1
• at 110 V	A	0.22
• at 125 V	A	0.22
• at 220 V	A	0.11
Protection function:		
Trip class		CLASS 10
Adjustable response current		
• of the current-dependent overload release	A	70 ... 90
Installation/mounting/dimensions:		
Mounting type		stand-alone installation
mounting position		with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
Depth	mm	140
Height	mm	120
Width	mm	70
Connections:		
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 main contacts		2x (2.5 ... 16 mm ²)
• solid		
• finely stranded		2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ²
• with conductor end processing		2x (10 ... 50 mm ²), 10 ... 70 mm ²
• stranded		2x (10 ... 1/0), 1x (10 ... 2/0)
• for AWG conductors / for main contacts		
• for auxiliary contacts		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• solid		
• finely stranded		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• with conductor end processing		2x (20 ... 16), 2x (18 ... 14)
• for AWG conductors / for auxiliary contacts		

Certificates/approvals:

General Product Approval

For use in hazardous locations

Declaration of Conformity



Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



other

[other](#)

[Environmental Confirmations](#)

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

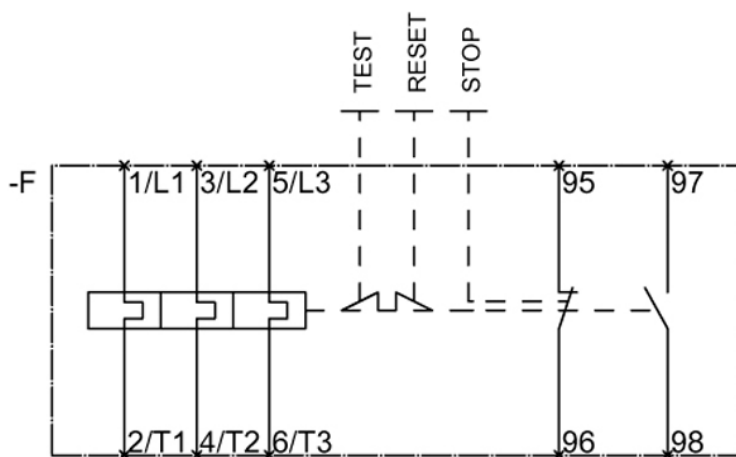
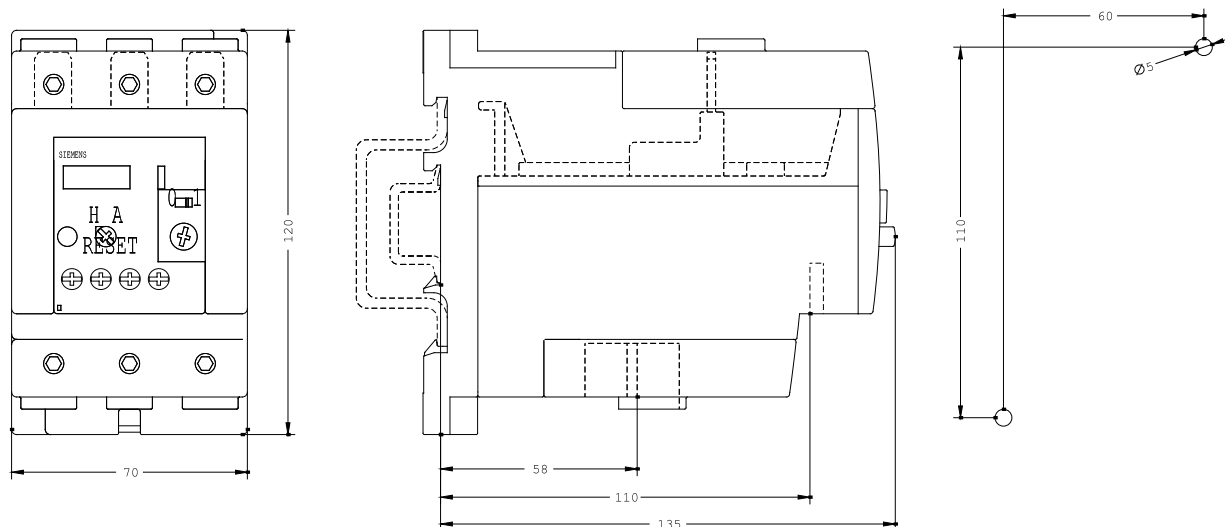
<http://www.siemens.com/industrial-controls/mall>

Cax online generator:

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

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

<http://support.automation.siemens.com/WW/view/en/3RU1146-4LB1/all>



last change:

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