

OVERLOAD RELAY 80...100 A FOR MOTOR
 PROTECTION SIZE S3,
 CLASS 10 FOR CONTACTOR MOUNTING MAIN CIRCUIT:
 SCREW CONN. AUX. CIRCUIT: SCREW CONN. MANUAL-
 AUTOMATIC-RESET

General technical details:		
Product brand name		SIRIUS
Product designation		thermal overload relay
Protection class IP / frontal/front side		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	1,000
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during the operating phase	°C	-20 ... 70
• during storage	°C	-55 ... 80
• during transport	°C	-55 ... 80
Relative humidity / during the operating phase / maximum	%	100
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	8
Real loss power / total / typical	W	16.5
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F
Operating current / of the fuse link / rated value	A	200
Trip class		CLASS 10
Type of assignment		2
Type of protection		DMT 98 ATEX G 001
Size of overload relay		S3
Size of the contactor / can be combined / company-specific		S3
Protection against electrical shock		finger-safe

Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at 3 AC / rated value		
• maximum	V	1,000

Service power / at AC-3		
• at 400 V	kW	45
Adjustable response current		
• of the current-dependent overload release	A	80 ... 100

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)
Number of NC contacts		1
Number of NO contacts		1
Number of change-over switches		0
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

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A, quick: 10 A
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Installation/mounting/dimensions:

built in orientation		with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
Type of fixing/fixation		direct mounting
Height	mm	120
Width	mm	70
Depth	mm	140
distance, to be maintained, to the ranks assembly		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0
distance, to be maintained, to earthed part		

• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	6
distance, to be maintained, conductive elements		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	6

Connection type:		
Product function		
• removable terminal for auxiliary and control circuit		No
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		
• unifilar		2x (2.5 ... 16 mm ²)
• stranded wire		2x (10 ... 50 mm ²), 10 ... 70 mm ²
• stranded wire		
• with conductor end processing		2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ²
• for auxiliary contacts		
• solid		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• finely stranded		
• with wire end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• without conductor final cutting		2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
• at AWG-conductors		
• for main contacts		2x (10 ... 1/0), 1x (10 ... 2/0)
• for auxiliary contacts		2x (18 ... 14)
Conductor cross section that can be connected		
• for main contacts		
• unifilar	mm ²	2.5 ... 6
• stranded wire	mm ²	10 ... 70
• stranded wire		
• with conductor end processing	mm ²	2.5 ... 50
• for auxiliary contact		
• unifilar	mm ²	0.5 ... 2.5

- stranded wire
- with conductor end processing
- without conductor final cutting

mm ²	0.5 ... 2.5
mm ²	0.5 ... 2.5

AWG number / as coded connectable conductor cross-section

- for main contacts / minimum
- for auxiliary contact

10
18 ... 14

Certificates/approvals:

verification of suitability

CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS

verification of suitability / ATEX

Yes

Further information:

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

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

Global Industry Mall (Online ordering system)

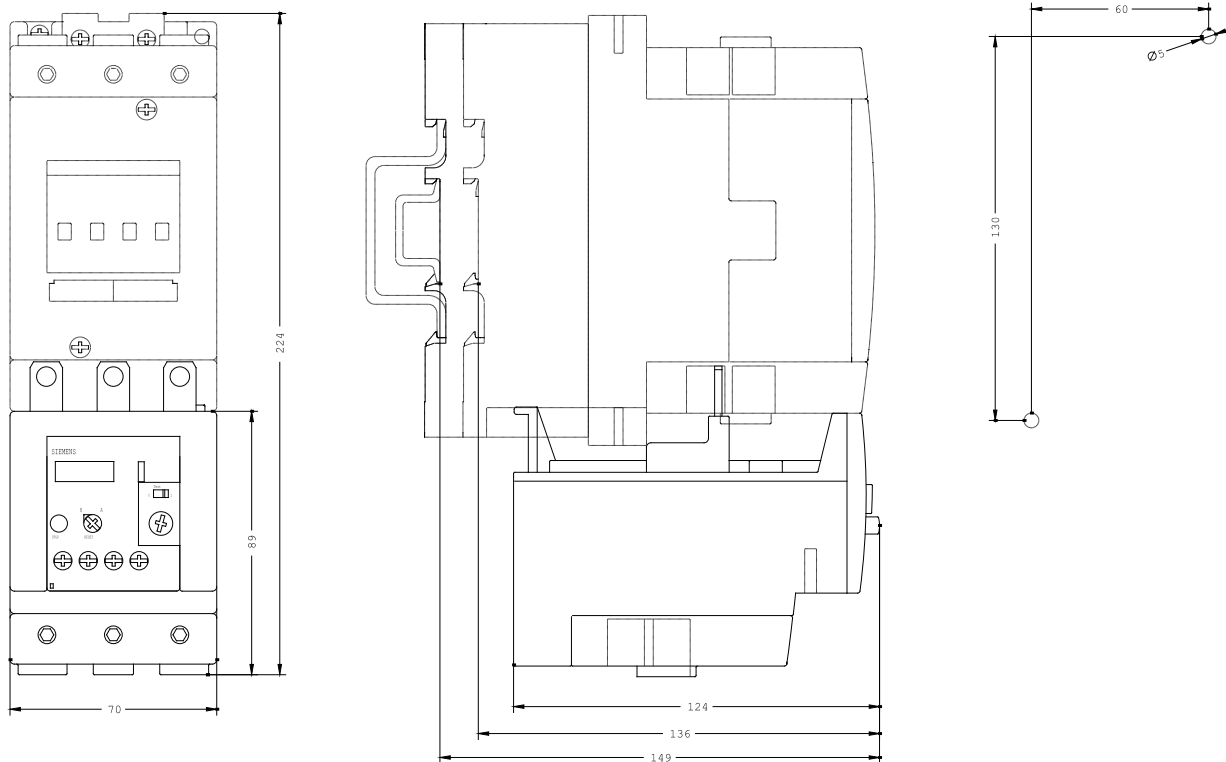
<http://www.siemens.com/industrial-controls/mall>

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

<http://support.automation.siemens.com/WW/view/en/3RU1146-4MB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1146-4MB0



last change:

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