

OVERLOAD RELAY 28...40 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 / on the front		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	1,000
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during operating	°C	-20 ... +70
• during storage	°C	-55 ... +80
• during transport	°C	-55 ... +80
Relative humidity / during operating phase / maximum	%	100
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	8
Active power loss / 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	80
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 AC-3 / rated value		
• maximum	V	1,000
Service power / at AC-3		

• at 400 V	kW	18.5
Adjustable response current		
• of the current-dependent overload release	A	28 ... 40

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 mounting		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		
• solid		2x (2.5 ... 16 mm ²)
• stranded		2x (10 ... 50 mm ²), 10 ... 70 mm ²
• finely stranded		
• 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 conductor end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors		
• for main contacts		2x (10 ... 1/0), 1x (10 ... 2/0)
• for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)
Conductor cross section that can be connected		
• for main contacts		
• solid	mm ²	2.5 ... 6
• stranded	mm ²	10 ... 70
• stranded wire		
• with conductor end processing	mm ²	2.5 ... 50
• for auxiliary contact		
• solid	mm ²	0.5 ... 2.5
• stranded wire		
• with conductor end processing	mm ²	0.5 ... 2.5

AWG number / as coded connectable conductor cross-section

- for main contacts / minimum
- for auxiliary contact

10
20 ... 14

Certificates/approvals:**Verification of suitability**

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

Verification of suitability / ATEX

Yes

General Product Approval**For use in hazardous locations****Test Certificates**

[ROSTEST](#)



[DEKRA EXAM, DMT](#)

[Manufacturer](#)

Shipping Approval

ABS



BUREAU VERITAS



DNV



GL



LRS



RINA

Shipping Approval

other



RMRS

[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

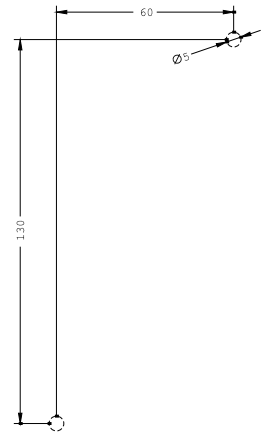
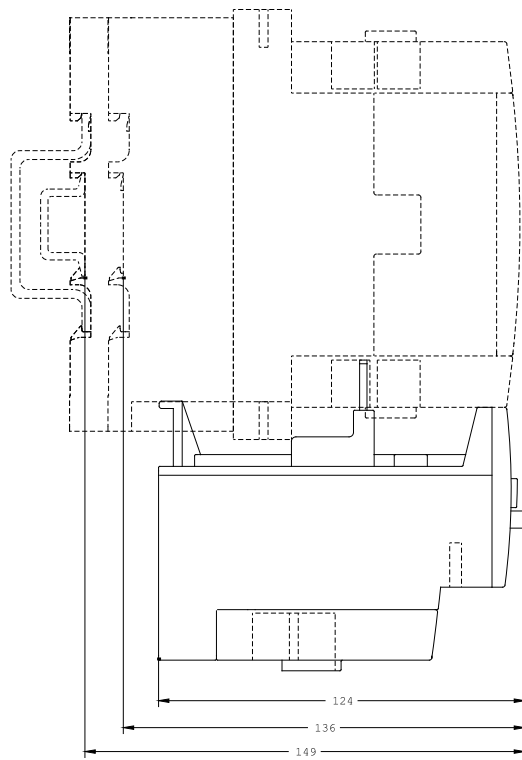
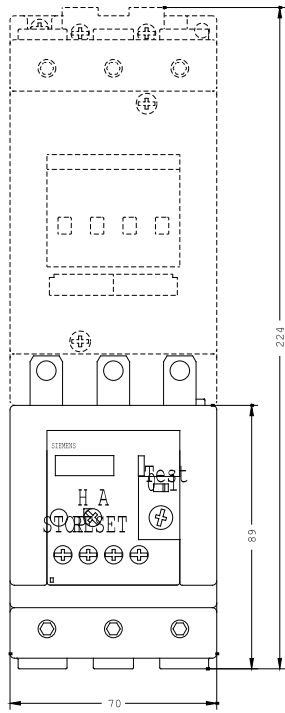
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RU1146-4FB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1146-4FB0



last change:

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