

Product data sheet 3RU1146-4FB0

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 / 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	Α	80
Trip class		CLASS 10
Type of assignement		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	18.5
Adjustable response current		
of the current-dependent overload release	Α	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	Α	3
• at 110 V	Α	3
• at 120 V	Α	3
• at 125 V	Α	3
• at 230 V	Α	2
• at 400 V	Α	1
Operating current / of the auxiliary contacts / at DC-13		
• at 24 V	Α	1
• at 110 V	Α	0.22
• at 125 V	Α	0.22
• at 220 V	А	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

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
• sidewards	mm	0
distance, to be maintained, to earthed part		

0
0
0
6
0
0
0
0
6
0 0 0 0 0

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 mm2)
• stranded wire		2x (10 50 mm2), 10 70 mm2
• stranded wire		
 with conductor end processing 		2x (2.5 35 mm2), 2.5 50 mm2
for auxiliary contacts		
• solid		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
finely stranded		
with wire end processing		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
 without conductor final cutting 		2x (0,5 1,5 mm2), 2x (0,75 2,5 mm2)
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	mm²	2.5 6
• stranded wire	mm²	10 70
• stranded wire		
 with conductor end processing 	mm²	2.5 50
for auxiliary contact		
• unifilar	mm²	0.5 2.5

• stranded wire		
 with conductor end processing 	mm²	0.5 2.5
 without conductor final cutting 	mm²	0.5 2.5
AWG number / as coded connectable conductor cross-section		
• for main contacts / minimum		10
for auxiliary contact		18 14

Certificates/approvals:	
verification of suitability	CSA/UL/CC/GL/LRS/BV/DNV/RMRS/RINA/ PRS/ABS
varification of suitability / ATEX	Yes

Further information:

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

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

Global Industry Mall (Online ordering system)

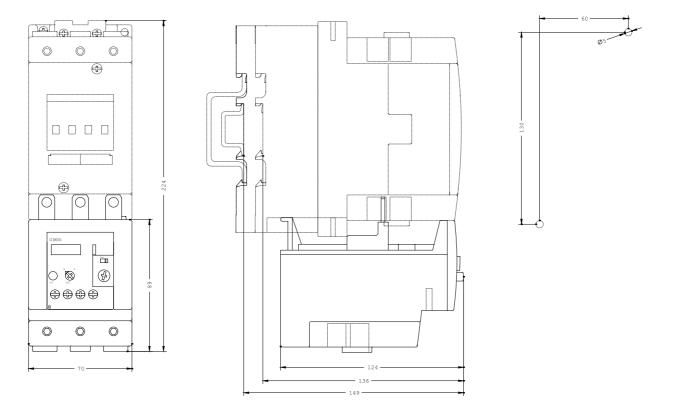
http://www.siemens.com/industrial-controls/mall

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

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



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