

Product data sheet 3RU1146-4JB0

OVERLOAD RELAY, 45...63 A, 1NO+1NC, SIZE S3, CLASS 10, FOR CONTACTOR MOUNTING

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	А	125
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

• at 400 V

Service power / at AC-3

kW

30

Adjustable response current		
of the current-dependent overload release	Α	45 63
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

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

Α

Α

Α

Α

Α

1

1

0.22

0.22

0.11

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		
• upwards	mm	0
• downwards	mm	0

• at 400 V

• at 24 V

• at 110 V

• at 125 V

• at 220 V

Operating current / of the auxiliary contacts / at DC-13

• forwards	mm	0
• backwards	mm	0
• sidewards	mm	6
distance, to be maintained, conductive elements		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	6
Common Company		
Connection type:		

• backwards	mm	0
• sidewards	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 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)

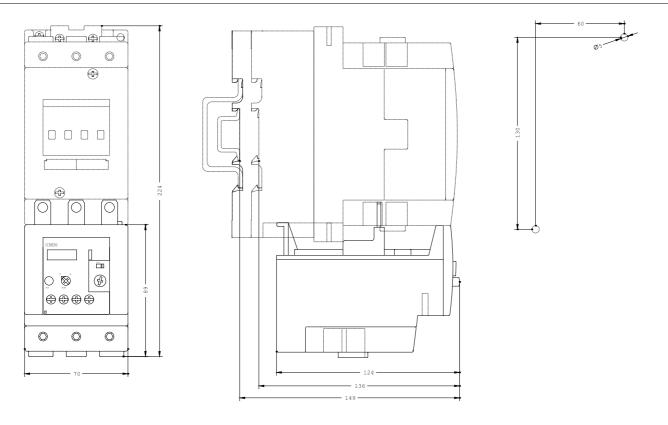
http://www.siemens.com/industrial-controls/mall

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

http://support.automation.siemens.com/WW/view/en/3RU1146-4JB0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1146-4JB0



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