

Product data sheet 3RU2116-1EB0

## THERM. OVERLOAD RELAY 2.8 - 4.0 A

General technical data:		
Product brand name		SIRIUS
Protection class IP / frontal/front side		IP20
Insulation voltage / with degree of pollution 3		
• rated value	V	690
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during the operating phase	°C	-40 70
Relative humidity		
during the operating phase	/ %	90
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Real loss power / total / typical	W	3.9
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		F
• according to DIN EN 61346-2		F
Trip class		CLASS 10
Type of assignement		2
Size of overload relay		S00
Size of the contactor / can be combined		
• company-specific		S00
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at 3 AC / rated value		
• maximum	V	690
Operating current / at AC-3 / at 400 V		

• rated value

Service power / at AC-3
• at 400 V / rated value

Α

kW

4

1.5

• at 500 V / rated value	kW	2.2
• at 690 V / rated value	W	3,000
Adjustable response current		
of the current-dependent overload release	Α	2.8 4
Operating current / of the fuse link / rated value	Α	16

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contact		1
Number of NO contacts / for auxiliary contact		1
Number of change-over switches / for auxiliary contact		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
• at DC-13		
• at 24 V	Α	1
• at 110 V	Α	0.22
• at 125 V	Α	0.22
• at 220 V	Α	0.11

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

Installation/mounting/dimensions:		
built in orientation		vertical
Type of fixing/fixation		direct mounting
Width	mm	45
Height	mm	87
Depth	mm	73
distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6

distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Connections:		
design of the electrical connection		
• for main current circuit		screw-type terminals
for auxiliary and control current circuit		screw-type terminals
Product function / removable terminal for auxiliary and control circuit		No
Type of the connectable conductor cross-section		
• for main contacts		
• unifilar		2 x (0.5 1.5 mm2), 2 x (0.75 2.5 mm2), 2 x (0.5 4 mm2)
• stranded wire		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x 0.5 mm2 2x 4 mm2
• stranded wire		
• with conductor end processing		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• at AWG-conductors / for main contacts		2x (20 16), 2x (18 14)
• 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)
• for AWG conductors / for auxiliary contacts		2x (20 16), 2x (18 14)
Certificates/approvals:		
verification of suitability		CE / UL / CSA
• ATEX		No
Safety:		
Mean time to failure (MTTF) / with high demand rate		

Sarety:		
Mean time to failure (MTTF) / with high demand rate		
• according to SN 31920	а	2,280
Proportion of dangerous failures		

• with low demand rate / according to SN 31920	%	50
• with high demand rate / according to SN 31920	%	50
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Protection against electrical shock		finger-safe

## Further information:

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

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

## Global Industry Mall (Online ordering system)

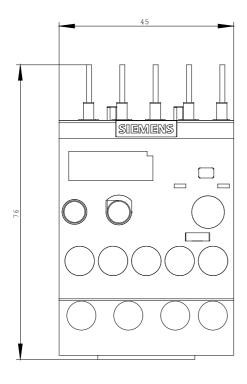
http://www.siemens.com/industrial-controls/mall

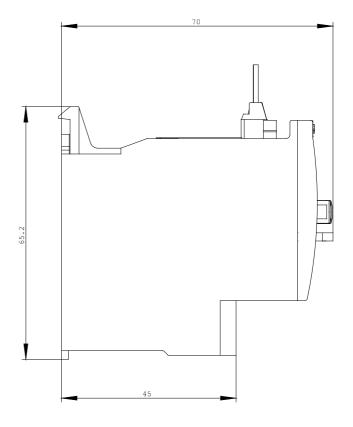
## Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

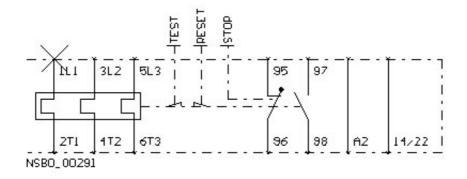
http://support.automation.siemens.com/WW/view/en/3RU2116-1EB0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RU2116-1EB0







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