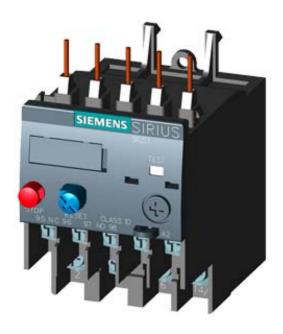
# SIEMENS

# **Product data sheet**

## 3RU2116-1HJ0



OVERLOAD RELAY 5.5...8.0 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: RING CABLE LUG AUX. CIRCUIT: RING CABLE LUG MANUAL-AUTOMATIC-RESET

General technical data:		
Product brand name		SIRIUS
product designation	-	3RU2 thermal overload relay
Protection class IP / on the front	-	IP20
Insulation voltage / with degree of pollution 3	-	
rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during operating	°C	-40 70
Relative humidity		
during operating phase	/ %	90
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	6
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 AC-3 / rated value		
• maximum	V	690
Operating current / at AC-3 / at 400 V		
rated value	А	8
Service power / at AC-3		
• at 400 V / rated value	kW	3
• at 500 V / rated value	kW	4
• at 690 V / rated value	kW	5.5
Adjustable response current		
• of the current-dependent overload release	А	5.5 8
Operating current / of the fuse link / rated value	А	25

Auxiliary circuit:			
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles	
Number of NC contacts / for auxiliary contacts		1	
Number of NO contacts / for auxiliary contacts		1	
Number of change-over switches / for auxiliary contacts		0	
Operating current / of the auxiliary contacts			
• at AC-15			
• at 24 V	А	3	
• at 110 V	А	3	
• at 120 V	А	3	
• at 125 V	А	3	
• at 230 V	А	2	
• at 400 V	А	1	
• at DC-13			
• at 24 V	А	1	
• at 110 V	А	0.22	
• at 125 V	А	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 gG: 10 A	
Installation/mounting/dimensions:			
Built in orientation		vertical	
Type of mounting	_	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		ring cable connection	
for auxiliary and control current circuit		ring cable connection	
Product function / removable terminal for auxiliary and control circuit		No	

Certificates/approvals:			
Verification of suitability		CE / UL / CSA	
• ATEX		No	

General Product App	oroval			For use in hazardous locations	Test Certificates
coc	(SA)	ROSTEST		DEKRA EXAM, DMT	Manufacturer
Shipping Approval					
ABS	<b>ŮŠ</b> DNV DNV	GL	Llova's Register LRS	PRS	RINA
Shipping Approval	other				
RMRS	Manufacturer				

Reliability figures:			
Mean time to failure (MTTF) / with high demand rate	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

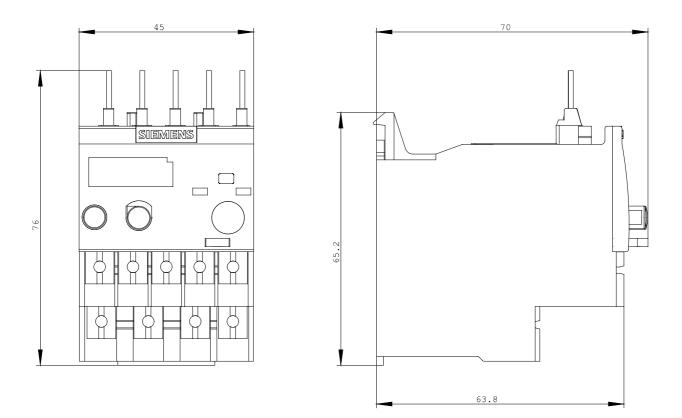
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

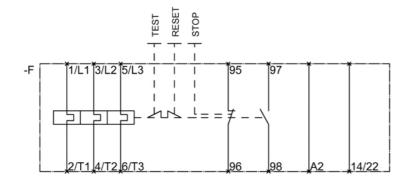
Cax online generator:

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU2116-1HJ0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RU2116-1HJ0





last change:

Oct 17, 2011