SIEMENS

Product data sheet 3RU2116-1FC0



OVERLOAD RELAY 3.5...5.0 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SPRING TERMINAL AUX. CIRCUIT: SPRING TERMINAL

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	6.1	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		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	Α	5	
Service power / at AC-3			
• at 400 V / rated value	kW	1.5	
• at 500 V / rated value	kW	2.2	
at 690 V / rated value	kW	4	
Adjustable response current			
of the current-dependent overload release	Α	3.5 5	
Operating current / of the fuse link / rated value	Α	20	

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	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
auxiliary switch / required

fuse gG: 10 A

Built in orientation		vertical
Type of mounting		direct mounting
Width		45
	mm	
Height	mm	73
Depth	mm	13
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		0
	mm	0
backwards	mm	0
• upwards	mm	6
downwards sidewards	mm	6
	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		spring-loaded terminals
for auxiliary and control current circuit		spring-loaded terminals
Product function / removable terminal for auxiliary and control circuit		No
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.5 4 mm2)
• stranded		2x (0.5 4 mm2)

• finely stranded

• with conductor end processing

• without conductor final cutting

2 x (0.5 ... 2.5 mm2)

2x (0.5 ... 2.5 mm2)

• for AWG conductors / for main contacts	1x (20 12)
• for auxiliary contacts	
• solid	2x (0.5 2.5 mm2)
• finely stranded	
• with conductor end processing	2x (0.5 1.5 mm2)
 without conductor final cutting 	2 x (0.5 1.5 mm2)
• for AWG conductors / for auxiliary contacts	2x (20 14)

• for AWG conductors / for auxiliary contacts		2X (20 14)				
Certificates/approvals:						
Verification of suitabi	ility			CE / UL	_/ CSA	
• ATEX			No			
General Product Ap	proval				For use in hazardous locations	Test Certificates
coc	CSA	ROSTEST			DEKRA EXAM, DMT	Manufacturer
Shipping Approval						
ABS	JÅ DNV DNV	GL®)	Lloyd's Register LRS		PRS	RINA
Shipping Approval	other					

Manufacturer

Reliability figures:			
а	2,280		
%	50		
%	50		
FIT	50		
а	20		
	finger-safe		
	% % FIT		

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:

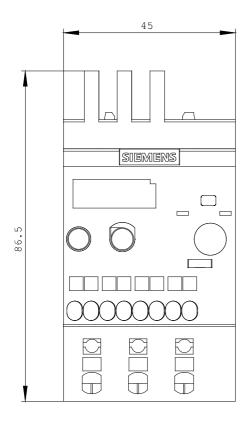
http://www.siemens.com/cax

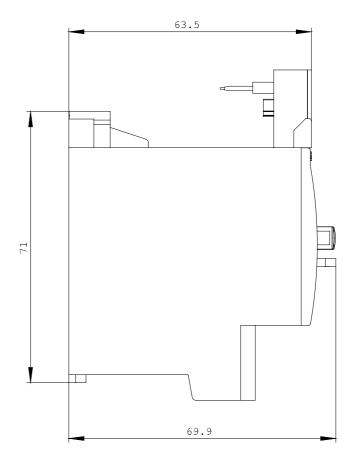
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

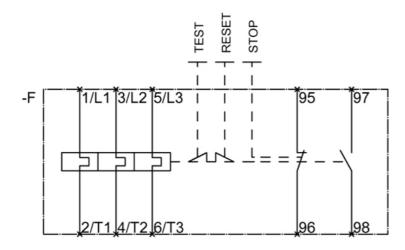
http://support.automation.siemens.com/WW/view/en/3RU2116-1FC0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-1FC0







last change: Oct 17, 2011