SIEMENS

Product data sheet 3RU2116-1EC0



OVERLOAD RELAY 2.8...4.0 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	5.4	
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	4
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	3
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 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	mm	45		
Height	mm	87		
Depth	mm	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		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)

* 101 AVVG CONDUCTORS / 101 auxiliary Contacts			2x (20 14)			
Certificates/approvals:						
Verification of suitabi	lity			CE / UL	_/ CSA	
• ATEX				No		
General Product App	proval				For use in hazardous locations	Test Certificates
coc	(SA	ROSTEST			DEKRA EXAM, DMT	Manufacturer
Shipping Approval						
ABS	DNV DNV	G L @	Lloyd's Register LRS		PRS	RINA
Shipping Approval	other					

RMRS

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:

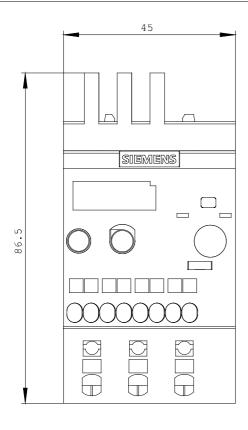
http://www.siemens.com/cax

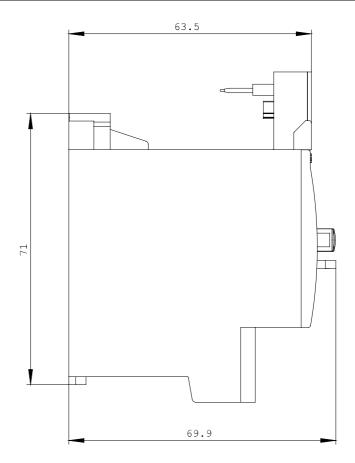
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

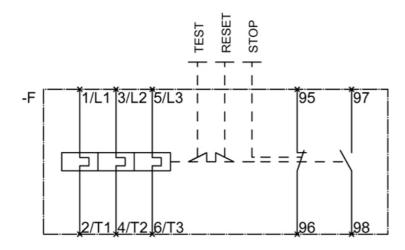
http://support.automation.siemens.com/WW/view/en/3RU2116-1EC0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-1EC0







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