SIEMENS

Data sheet

3RU2116-1HC0



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

product brand name	-	SIRIUS
Product designation		3RU2 thermal overload relay
-		
General technical data:	_	
Active power loss total typical	W	6
Insulation voltage		
 with degree of pollution 3 Rated value 	V	690
Surge voltage resistance Rated value	kV	6
Temperature compensation	°C	-40 +60
Size of contactor can be combined company-specific		S00
Type of assignment		2
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Type of protection		DMT 98 ATEX G 001
Equipment marking		
• acc. to DIN EN 81346-2		F
Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current-	A	5.5 8
dependent overload release		
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	A	8

Operating current		
• at AC-3		
— at 400 V Rated value	А	8
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		1
— Note		for contactor disconnection
Number of NO contacts		
 for auxiliary contacts 		1
— Note		for message "Tripped"
Number of CO contacts	_	
 for auxiliary contacts 		0
Design of the auxiliary switch	_	integrated
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
Operating current of the auxiliary contacts at DC-13		
• at 24 V	А	2
• at 110 V	А	0.22
• at 125 V	А	0.22
● at 220 V	А	0.11

Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker	_	thermal
	_	
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 400 V/ Datad value	Δ	0

 at 480 V Rated value at 600 V Rated value 	А	8
Contact rating of the auxiliary contacts acc. to UL		B600 / R300

Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		direct mounting
Height	mm	87
Width	mm	45
Depth	mm	70
Required spacing		
 with side-by-side mounting 		

— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
 for grounded parts 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— at the side	mm	6
— downwards	mm	6
 for live parts 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
Connections/ Terminals:		
Product function		
 removable terminal for auxiliary and control 		No
circuit		
Type of electrical connection		
• for main current circuit		spring-loaded terminals
for auxiliary and control current circuit		spring-loaded terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		1x (0,5 4 mm²)
— finely stranded with core end processing		1x (0.5 2.5 mm²)
 finely stranded without core end processing 		1x (0.5 2.5 mm²)
 for AWG conductors for main contacts 		1x (20 12)
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded without core end processing 		2x (0.5 1.5 mm²)
• for AWG conductors for auxiliary contacts		2x (20 14)
Design of screwdriver shaft		5 to 6 mm diameter
Safety related data:		

Proportion of dangerous failures				
• with low demand rate acc. to SN 31920	%	50		
 with high demand rate acc. to SN 31920 	%	50		
MTTF with high demand rate	У	2 280		
T1 value for proof test interval or service life acc. to IEC 61508	У	20		
Protection against electrical shock	_	finger-safe		
/lechanical data:				
Size of overload relay	_	S00		
Ambient conditions:	_	_		
Installation altitude at height above sea level	m	2 000		
maximum Ambient temperature	_			
during operation	°C	-40 +70		
during operation during storage	°C	-55 +80		
during storage during transport	°C	-55 +80		
Relative humidity during operation	%	0 90		
	,0	000		
isplay:	_	_		
 for switching status 		Slide switch		
• IOF SWITCHING STATUS		Olde Switch		
Certificates/ approvals:				
General Product Approval			For use in hazardous locations	Declaration of Conformity
	(K ATEX	EG-Konf.
Test Certificates Shipping	Approval			
Test Certificates Shipping / Type Test Special Test Certificates/Test Certificate Report ABS	B U	REAU RITAS	ĴÅ DINV DNV	GL
Type Test Special Test Certificates/Test Certificate Report Certificate	B U		DNV	

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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

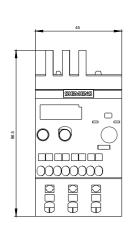
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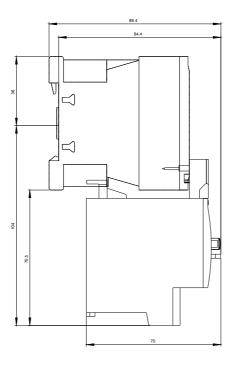
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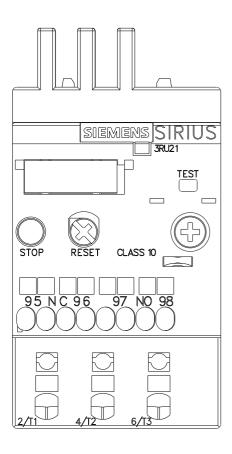
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU21161HC0

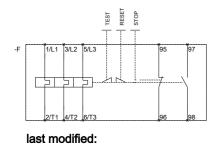
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU21161HC0&lang=en







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