SIEMENS

Data sheet

3RU2116-1CC1

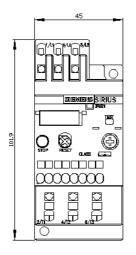


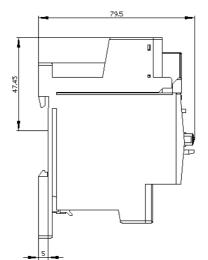
Overload relay 1.8...2.5 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

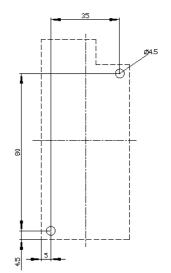
product brand name	SIRIUS			
product brand name product designation	thermal overload relay			
product designation	3RU2			
	JR02			
General technical data	222			
size of overload relay	S00			
size of contactor can be combined company-specific	S00			
power loss [W] for rated value of the current at AC in hot operating state	5.7 W			
• per pole	1.9 W			
insulation voltage with degree of pollution 3 at AC rated value	690 V			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation in networks with grounded star point				
 between auxiliary and auxiliary circuit 	440 V			
 between auxiliary and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
shock resistance acc. to IEC 60068-2-27	8g / 11 ms			
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD			
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001			
reference code acc. to IEC 81346-2	F			
Substance Prohibitance (Date)	01.10.2009 00:00:00			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
 during operation 	-40 +70 °C			
 during storage 	-55 +80 °C			
 during transport 	-55 +80 °C			
temperature compensation	-40 +60 °C			
relative humidity during operation	10 95 %			
Main circuit				
number of poles for main current circuit	3			
adjustable current response value current of the current-dependent overload release	1.8 2.5 A			
operating voltage				
 rated value 	690 V			
• at AC-3 rated value maximum	690 V			
operating frequency rated value	50 60 Hz			

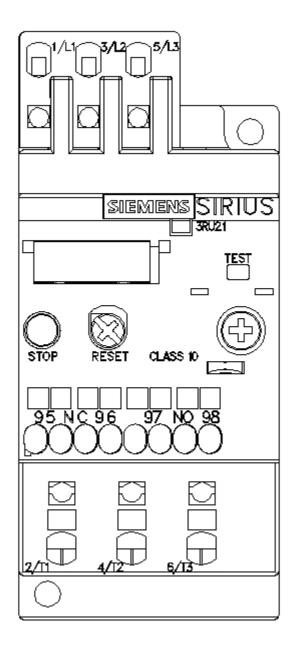
energianal aurrent sated value	251
operational current rated value	2.5 A
operating power at AC-3	0.75 1/0/
at 400 V rated value	0.75 kW
at 500 V rated value	1.1 kW
• at 690 V rated value	1.5 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
• note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 110 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.3 A
● at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	2.5 A
 at 600 V rated value 	2.5 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	102 mm
width	45 mm
depth	79 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	apring loaded terminals
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	1x (0,5 4 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²)
 finely stranded with core end processing finely stranded without core end processing 	1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²)
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts 	1x (0.5 2.5 mm ²)
finely stranded without core end processingat AWG cables for main contacts	
 finely stranded without core end processing at AWG cables for main contacts type of connectable conductor cross-sections 	1x (0.5 2.5 mm ²)
finely stranded without core end processingat AWG cables for main contacts	1x (0.5 2.5 mm ²)

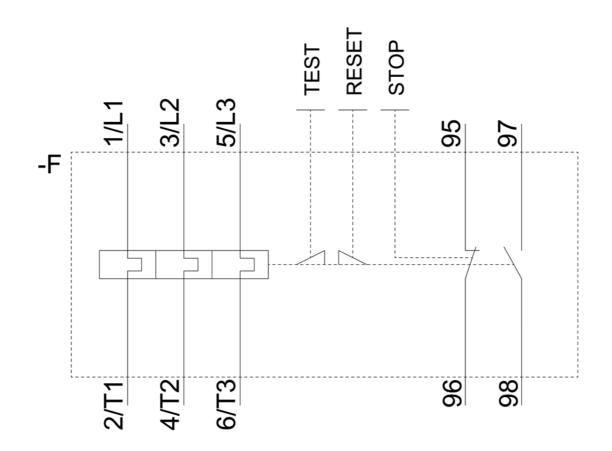
-	nded with core end pro	-	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
	- finely stranded without core end processing $2x (0.5 \dots 1.5 \text{ mm}^2)$,			
	AWG cables for auxiliary contacts 2x (20 14)						
design of screwdriver shaft Diameter 3							
size of the screwdriver tip				3,0 x 0,5 mm			
Safety related data		_					
failure rate [FIT] with low demand rate acc. to SN 31920 50 FIT							
MTTF with high demand rate			2 280 y				
T1 value for proof test interval or service life acc. to IEC 61508			20 y				
protection class IP on the front acc. to IEC 60529			IP20				
touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front				
Display							
display version for sv	vitching status		Slide	switch			
Certificates/ approva	ls						
General Product A	pproval				For use in hazardo	ous locations	
SF.				EAC	Ex ATEX	IECEx	
Declaration of Conformity	Test Certificates			Marine / Shipping			
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ce</u> ate	<u>ertific-</u>	ABS	BUREAU VERITAS	Lloyd's Kegister urs	
Marine / Shipping					other	Railway	
PRS	RINA	RMRS RARS		DNV-GL	<u>Confirmation</u>	Vibration and Shock	
Further information							
Further information Information- and Downloadcenter (Catalogs, Brochures,)							
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1CC1 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1CC1 Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CC1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1CC1⟨=en Chernenteristics_126_Lot thetween warrent							
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CC1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1CC1&objecttype=14&gridview=view1							











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