SIEMENS

Data sheet 3RU2116-0HB1



OVERLOAD RELAY 0.55...0.80 A FOR MOTOR PROTECTION SZ S00, CLASS 10, STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

product brandname	SIRIUS
Product designation	thermal overload relay
Product type designation	3RU2

General technical data	
Size of overload relay	S00
Size of contactor can be combined company-specific	S00
Power loss [W] total typical	4.5 W
Insulation voltage with degree of pollution 3 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
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
Protection class IP	

• on the front	IP20
• of the terminal	IP20
Type of protection	Ex e
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	F

Ambient conditions		
Ambient temperature		
during operation	-40 +70 °C	
during storage	-55 +80 °C	
 during transport 	-55 +80 °C	
Temperature compensation	-40 +60 °C	

Main circuit		
Number of poles for main current circuit	3	
Adjustable pick-up value current of the current-	0.55 0.8 A	
dependent overload release		
Operating voltage		
• rated value	690 V	
 at AC-3 rated value maximum 	690 V	
Operating frequency rated value	50 60 Hz	
Operating current rated value	0.8 A	
Operating power at AC-3		
• at 400 V rated value	0.18 kW	
• at 500 V rated value	0.25 kW	
• at 690 V rated value	0.37 kW	

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	
Operating 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	

Operating current of auxiliary contacts at DC-13			
• at 24 V	2 A		
• at 110 V	0.22 A		
● at 125 V	0.22 A		
• at 220 V	0.11 A		
Protective and monitoring functions			
Trip class	CLASS 10		
Design of the overload release	thermal		
JL/CSA ratings			
Full-load current (FLA) for three-phase AC motor			
• at 480 V rated value	0.8 A		
• at 600 V rated value	0.8 A		
Contact rating of auxiliary contacts according to UL	to UL B600 / R300		
nstallation/ mounting/ dimensions			
Mounting position	any		
Mounting type	stand-alone installation		
Height	89 mm		
Width	45 mm		
Depth	80 mm		
Required spacing			
with side-by-side mounting			
— forwards	0 mm		
— Backwards	0 mm		
— upwards	6 mm		
— downwards	6 mm		
— at the side	6 mm		
• for grounded parts			
— forwards	0 mm		

— downwards	o mm	
— at the side	6 mm	
• for grounded parts		
— forwards	0 mm	
— Backwards	0 mm	
— upwards	6 mm	
— at the side	6 mm	
— downwards	6 mm	
• for live parts		
— forwards	0 mm	
— Backwards	0 mm	
— upwards	6 mm	
— downwards	6 mm	
— at the side	6 mm	

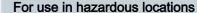
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Product function

 removable terminal for auxiliary and control circuit 	No	
Type of electrical connection		
• for main current circuit	screw-type terminals	
 for auxiliary and control current circuit 	screw-type terminals	
Arrangement of electrical connectors for main current circuit	Top and bottom	
Type of connectable conductor cross-sections		
• for main contacts		
 — single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 at AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12	
Type of connectable conductor cross-sections		
• for auxiliary contacts		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)	
Tightening torque		
 for main contacts with screw-type terminals 	0.8 1.2 N·m	
• for auxiliary contacts with screw-type terminals	0.8 1.2 N·m	
Design of screwdriver shaft	5 6 mm diameter	
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	
Display		
Display version		
• for switching status	Slide switch	

Certificates/approvals

General Product Approval















IECEx

Dec	laration	of
Con	formity	

Test Certificates Shipping Approval



Typprüfbescheinigu ng/Werkszeugnis







Railway



Shipping Approval

other

Umweltbestätigung Bes

Bestätigungen

Schwingen/Schocke

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-0HB1

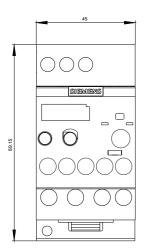
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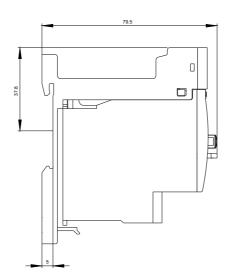
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0HB1

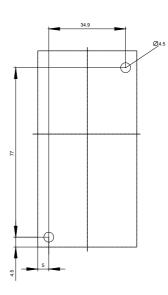
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

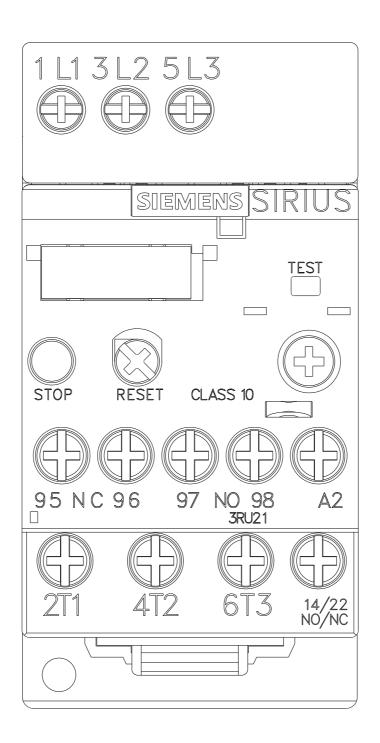
 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HB1}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0HB1&lang=en

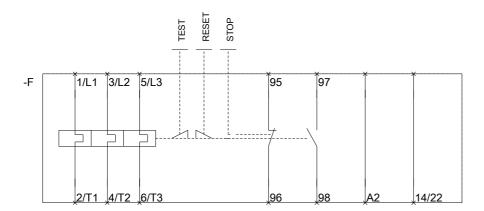








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