## SIEMENS

## Data sheet

## 3RU2116-0GB0



Overload relay 0.45...0.63 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	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] for rated value of the current at AC in hot operating state	4.8 W				
per pole	1.6 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					
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V				
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V				
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V				
<ul> <li>between main and auxiliary circuit</li> </ul>	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				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-40 +70 °C				
<ul> <li>during storage</li> </ul>	-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	0.45 0.63 A				
operating voltage rated value	690 V				
operating frequency rated value	50 60 Hz				
operational current rated value	0.63 A				
operating power at AC-3					

	0.40.1144		
at 400 V rated value	0.18 kW		
at 500 V rated value	0.25 kW		
• at 690 V rated value	0.25 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	2.4		
• at 24 V	3 A		
● at 110 V ● at 120 V	3 A		
• at 120 V	3 A 2 A		
	3 A 2 A		
● at 230 V ● at 400 V	2 A 1 A		
• at 400 V operational current of auxiliary contacts at DC-13	TA		
• at 24 V	2 A		
• at 24 V • at 60 V	0.3 A		
• at 110 V	0.22 A		
• at 125 V	0.22 A		
• at 220 V	0.12 A		
contact rating of auxiliary contacts according to UL	B600 / R300		
Protective and monitoring functions	2000 11000		
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	0.63 A		
• at 600 V rated value	0.63 A		
Short-circuit protection			
design of the fuse link			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 6 A, quick: 10 A		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	Contactor mounting		
height	76 mm		
width	45 mm		
depth	70 mm		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	No		
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
arrangement of electrical connectors for main current circuit	Top and bottom		
type of connectable conductor cross-sections			
for main contacts			
— solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>		
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
tightening torque			

for main contacts with screw-type terminals		0.8 1.2 N·m				
	ontacts with screw-type t	erminals	0.8 1.2 N·m			
design of screwdr			Diameter 5 6 mm			
size of the screwd	•		Pozidriv PZ 2			
•	ad of the connection sc	rew				
<ul> <li>for main contacts</li> </ul>		M3				
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3				
Safety related data						
	h low demand rate acc. t	o SN 31920	50 FIT			
MTTF with high demand rate		2 280 у				
T1 value for proof test interval or service life acc. to IEC 61508		20 y				
protection class IP	on the front acc. to IE	C 60529	IP20			
touch protection o	n the front acc. to IEC	60529	finger-safe, for vertical contact from the front			
Display						
display version for s	witching status		Slide switch			
Certificates/ approv	als					
General Product A	Approval			For use in hazardo	us locations	
Concrar i roduct y						
		(h) u	EHC	ATEX	IECEX	
Declaration of Co	nformity	Test Certifica	ites	Marine / Shipping		
CE EG-Konf.	<u>UK Declaration of</u> <u>Conformity</u>	<u>Type Test Cer</u> ates/Test Re		ABS	BUREAU VERITAS	
Marine / Shipping					other	
	-	-	-			
Lloyds Register us	PRS	RINA	RMRS	DNV-GL	<u>Confirmation</u>	
Railway						
Vibration and Shock	<u> </u>					
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=3RU2116-0GB0						
		vcatalog/product	IIIID=3KU2116-UGBU			
	http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0GB0					
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						

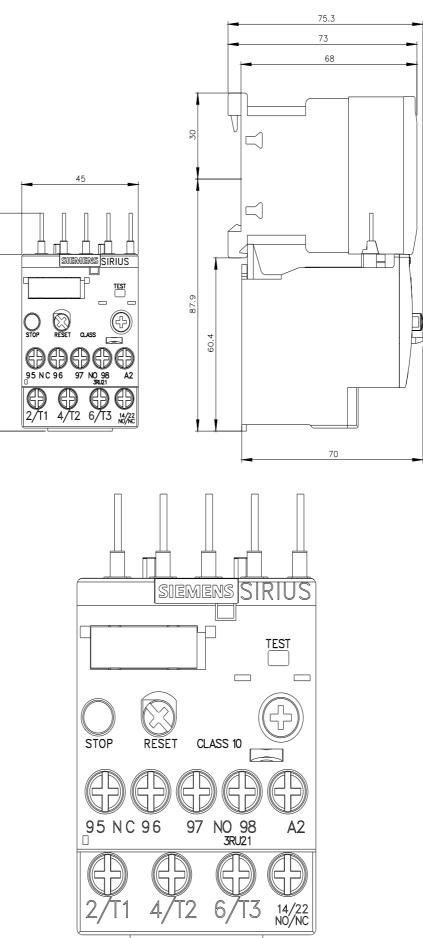
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0GB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-0GB0&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

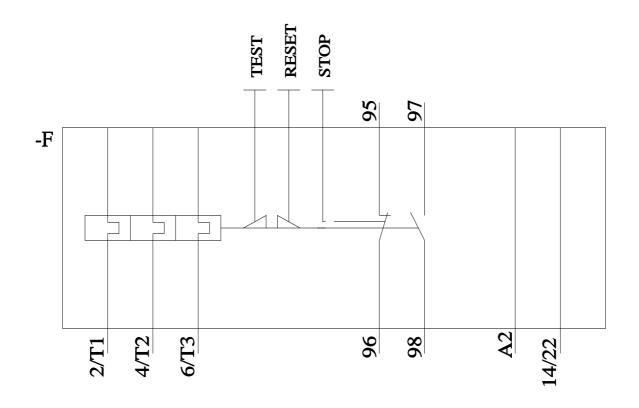
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Further characteristics (e.g. electrical endurance, switching frequency)



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