SIEMENS

Data sheet

3RU2116-0GC0



Overload relay 0.45...0.63 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal 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 protective separation 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 according 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 according to IEC 81346-2	F			
Substance Prohibitance (Date)	10/01/2009			
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	0.45 0.63 A			
operating voltage				
 rated value 	690 V			
 at AC-3e rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			

operational current rated value	0.63 A
operational current at AC-3e at 400 V rated value	0.63 A
operating power	
• at AC-3	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.18 kW
— at 690 V rated value	0.25 kW
• at AC-3e	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.18 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	
note	for message "Tripped"
	0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	2.4
• at 24 V	3 A 2 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	0.63 A
at 400 V rated value at 600 V rated value	0.63 A
	0.03 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	87 mm
width	45 mm
depth	70 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	
 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)

£ 1 1						
— finely stra	nded with core end processing	1x (C).5 2.5 mm²)			
— finely stra	nded without core end processing	ig 1x (0	1x (0.5 2.5 mm²)			
at AWG cables	for main contacts	1x (2	1x (20 12)			
type of connectable	conductor cross-sections					
 for auxiliary con 	ntacts					
— solid or st	randed	2x (0	2x (0.5 2.5 mm²)			
 finely stranded with core end processing 		2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded without core end processing 		g 2x (0	2x (0.5 1.5 mm²)			
at AWG cables for auxiliary contacts		2x (2	2x (20 14)			
design of screwdriver shaft		Diam	Diameter 3 mm			
size of the screwdriver tip		3,0 x	3,0 x 0,5 mm			
Safety related data						
failure rate [FIT] with low demand rate according to SN 31920		N 50 F	50 FIT			
MTTF with high den	MTTF with high demand rate		0 у			
T1 value for proof tes IEC 61508	st interval or service life according	g to 20 y				
protection class IP 6 60529	on the front according to IEC	IP20)			
touch protection on	the front according to IEC 605	529 finge	er-safe, for vertical cont	act from the front		
Display						
display version for sw	vitching status	Slide	e switch			
Certificates/ approva	-					
					For use in hazard-	
General Product A	pprovai				ous locations	
	Cor	nfirmation				
	CCC			FHT	KEX ATEX	
For use in hazard- ous locations	Declaration of Conformity		Test Certificates	FHI	Marine / Shipping	
	Declaration of Conformity	JK	Test Certificates	EHL Special Test Certific- ate	Marine / Shipping	
ous locations	Declaration of Conformity	JK	Type Test Certific-			
ous locations	Declaration of Conformity	JK A	Type Test Certific-			
ous locations	Declaration of Conformity		Type Test Certific-			
ous locations	Declaration of Conformity		Type Test Certific-			
ous locations	Declaration of Conformity		Type Test Certific-			

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=3RU2116-0GC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0GC0

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

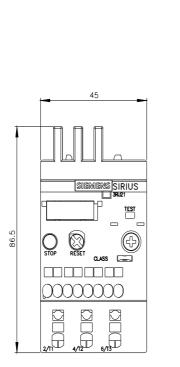
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0GC0

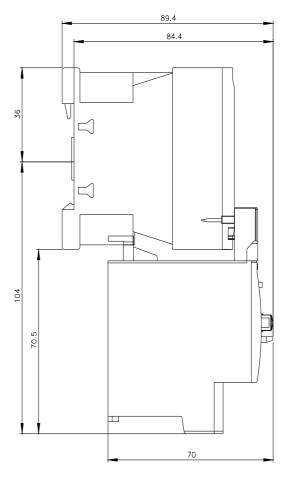
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0GC0&lang=en

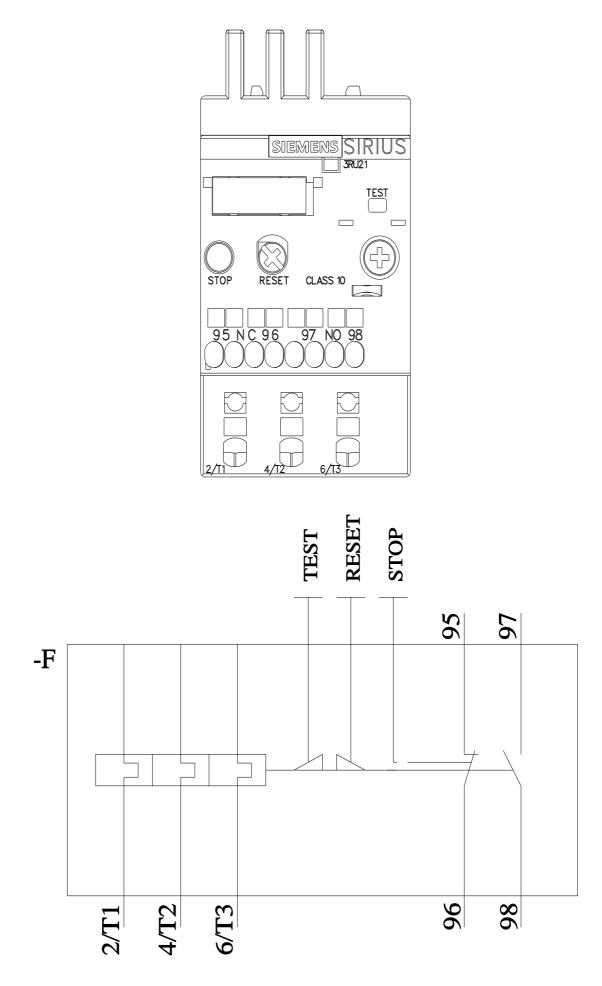
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0GC0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0GC0&objecttype=14&gridview=view1







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