SIEMENS

Data sheet

3RU2116-1GC1

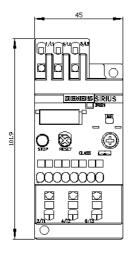


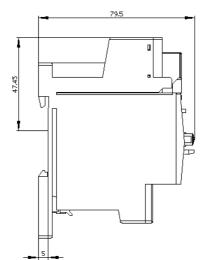
Overload relay 4.5...6.3 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

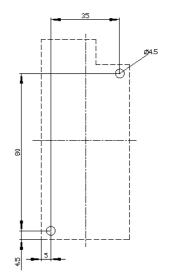
product brand name	SIRIUS		
product brand name product designation			
product designation	thermal overload relay 3RU2		
General technical data	51/02		
	000		
size of overload relay	S00 S00		
size of contactor can be combined company-specific			
power loss [W] for rated value of the current at AC in hot operating state	6.6 W		
• per pole	2.2 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	4.5 6.3 A		
operating voltage			
 rated value 	690 V		
• at AC-3 rated value maximum	690 V		
operating frequency rated value	50 60 Hz		

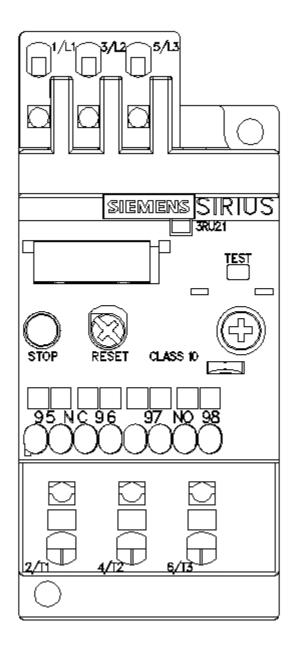
operational current rated value	6.3 A
	0.07
operating power at AC-3 • at 400 V rated value	2.2 kW
	2.2 KVV 3 KW
at 500 V rated value	
at 690 V rated value	4 kW
Auxiliary circuit	interroled
design of the auxiliary switch	integrated 1
number of NC contacts for auxiliary contacts	
note number of NO contacts for auxiliary contacts	for contactor disconnection
note	
	for message "Tripped" 0
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	0
• 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 200 V	1A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 24 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	6.3 A
 at 600 V rated value 	6.3 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 and control circuit	No
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	Top and bottom
circuit	
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	1x (0,5 4 mm²)
 — solid or stranded — finely stranded with core end processing 	1x (0,5 4 mm²) 1x (0.5 2.5 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 at AWG cables for main contacts type of connectable conductor cross-sections 	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 mm²) 1x (0.5 2.5 mm²)

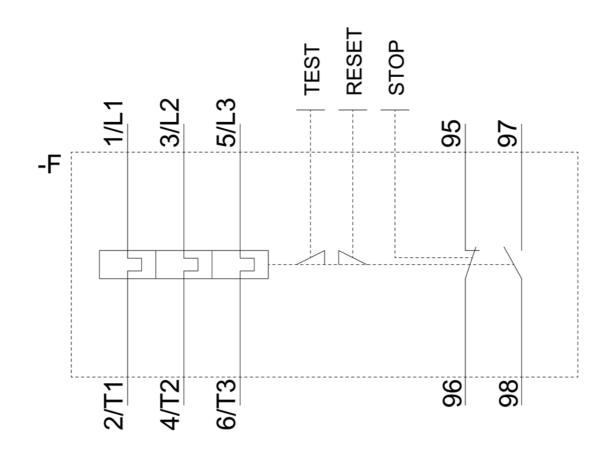
0	75 0 5				
3,0 x 0,5 mm					
50 FIT					
2 280 y					
20 y					
IP20					
finger-safe, for vertical contact from the front					
3					
Slide switch					
Slide Switch					
	For use in hazardo	ous locations			
EHC	K x ATEX	IECEx			
Marine / Shipping					
ertific- ABS	BUREAU VERITAS	Lloyd's Kegister urs			
	other	Railway			
ONV-GL	<u>Confirmation</u>	Vibration and Shock			
Further information Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10					
FAQs,) <u>1GC1</u> s, 3D models, device circui <u>b=3RU2116-1GC1⟨=en</u> current	t diagrams, EPLAN m	acros,)			
	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 50 FIT 2 280 y 20 y IP20 finger-safe, for vertical con Slide switch Slide switch Marine / Shipping ertific- marine / Shipping ertific- (Marine / Shipping and and and and and and and and and and	2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 50 FIT 2 280 y 20 y IP20 finger-safe, for vertical contact from the front Slide switch For use in hazarde Effic Marine / Shipping ertific- Marine / Shipping ertific- other Confirmation) t?mlfb=3RU2116-1GC1 FAQs,) IGC1 s, 3D models, device circuit diagrams, EPLAN m b=3RU2116-1GC18lang=en surrent			











last modified:

12/15/2020 🖸