SIEMENS

Data sheet 3RU2116-1CJ0



Overload relay 1.8...2.5 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable lug 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	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 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	1.8 2.5 A
operating voltage	
rated value	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz

an another all assuments and a section	0.5.4	
operational current at AC 20 at 400 V rated value	2.5 A	
operational current at AC-3e at 400 V rated value	2.5 A	
operating power • at AC-3		
■ at 400 V rated value	0.75 kW	
	1.1 kW	
— at 500 V rated value	1.1 KVV 1.5 kW	
— at 690 V rated value• at AC-3e	1.3 KVV	
— at 400 V rated value	0.75 k/M	
	0.75 kW 1.1 kW	
— at 500 V rated value — at 690 V rated value	1.1 kW 1.5 kW	
	UVA C.1	
Auxiliary circuit	into mosts al	
design of the auxiliary switch	integrated 1	
number of NC contacts for auxiliary contacts		
• 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 A	
• 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	0.4	
• 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	01.4.00.40	
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 required.	fuse gG: 6 A, quick: 10 A	
required		
Installation/ mounting/ dimensions	any	
mounting position	any Contactor mounting	
fastening method	Contactor mounting 76 mm	
height 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	Ring cable lug connection	
for auxiliary and control circuit	ring terminal lug connection	
arrangement of electrical connectors for main current circuit	Top and bottom	
tightening torque		
 for main contacts for ring cable lug 	1.2 0.8 N·m	
 for auxiliary contacts for ring cable lug 	0.8 1.2 N·m	

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outer diameter of the usable ring cable lug maximum	7.5 mm
design of screwdriver shaft	Diameter 5 6 mm
size of the screwdriver tip	Pozidriv PZ 2
design of the thread of the connection screw	
 for main contacts 	M3
 of the auxiliary and control contacts 	M3
Safety related data	
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
MTTF with high demand rate	2 280 y
T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	IP00
Display	
display version for switching status	Slide switch
Certificates/ approvals	

®

General Product Approval



Confirmation







For use in hazard-

ous locations

IECEx

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation

Vibration and Shock

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=3RU2116-1CJ0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1CJ0

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

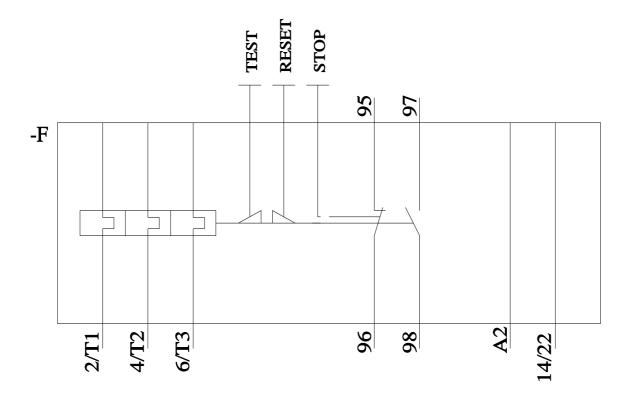
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CJ0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1CJ0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CJ0/char

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