SIEMENS

3RU2116-1JC0 Data sheet



OVERLOAD RELAY 7.0...10 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SPRING TERMINAL AUX. CIRCUIT: SPRING TERMINAL MANUAL-AUTOMATIC-RESET

Product brand name	SIRIUS
Product designation	thermal overload relay
Product type designation	3RU2

S00
S00
6.1 W
690 V
6 kV
440 V

• 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-	7 10 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	10 A
Operating power at AC-3	
● at 400 V rated value	4 kW
• at 500 V rated value	5.5 kW
• at 690 V rated value	7.5 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

2 A
0.22 A
0.22 A
0.11 A
B600 / R300

Protective and monitoring functions	
Trip class CLASS 10	
Design of the overload release	thermal

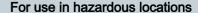
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	10 A
● at 600 V rated value	10 A

at 555 V lated Value	
nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	87 mm
Width	45 mm
Depth	70 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
— 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

Connections/Terminals	
Product function	

• removable terminal for auxiliary and control	No
Type of electrical connection	
• for main current circuit	spring-loaded terminals
• for auxiliary and control current circuit	spring-loaded 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	1x (0,5 4 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²)
 finely stranded without core end processing 	1x (0.5 2.5 mm²)
 at AWG conductors for main contacts 	1x (20 12)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
 single or multi-stranded 	2x (0,5 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 14)
Design of screwdriver shaft	Diameter 3 mm
Size of the screwdriver tip	3,0 x 0,5 mm
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	20 y
IEC 61508	
Display	
Display version	
• for switching status	Slide switch
Certificates/approvals	

General Product Approval















IECEx

Decl	aration	of
Con	formity	

Test	
Certificate	•

Marine / Shipping



Type Test
Certificates/Test
Report





other





Railway

Marine / Shipping



 $\frac{\text{Environmental}}{\text{Confirmations}}$

Confirmation

Vibration and Shock

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=3RU2116-1JC0

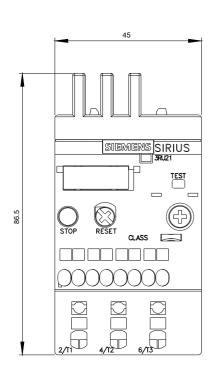
Cax online generator

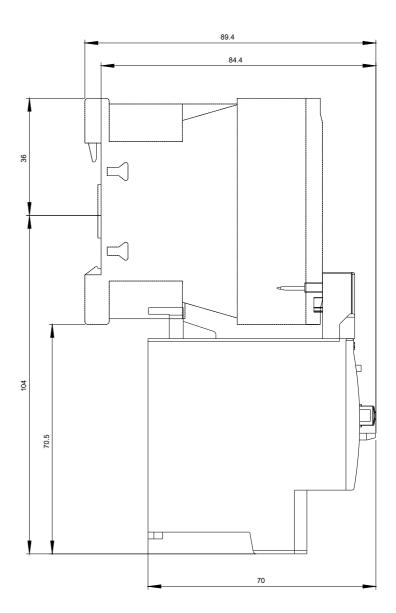
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1JC0

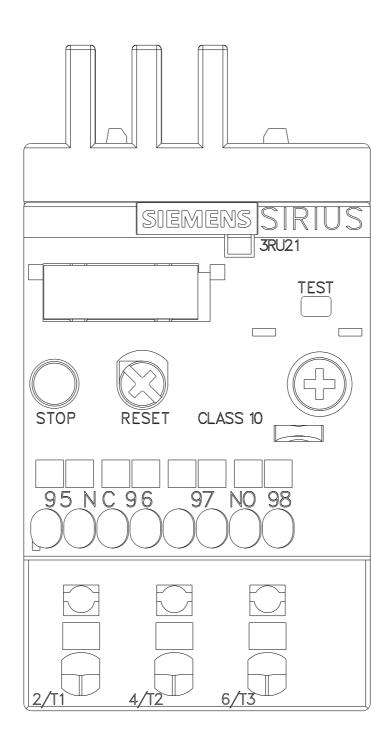
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1JC0

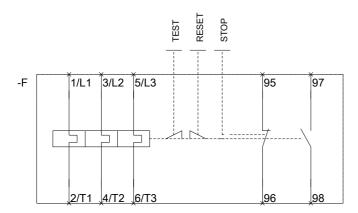
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1JC0&lang=en







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