



OVERLOAD RELAY 4.5...6.3 A FOR MOTOR PROTECTION SZ
S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN
CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL
MANUAL-AUTOMATIC-RESET REUSABLE PACKAGING
PACKAGE = 64 UNITS

product brandname	SIRIUS
Product designation	3RU2 thermal overload relay
General technical data	
Size of overload relay	S00
Size of contactor can be combined company-specific	S00
Power loss [W] total typical	5.7 W
Insulation voltage with degree of pollution 3 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
• in networks with grounded star point between auxiliary and auxiliary circuit	440 V
• in networks with grounded star point between main and auxiliary circuit	440 V
• in networks with grounded star point between main and auxiliary circuit	440 V
Protection class IP	
• on the front	IP20

• of the terminal	IP20
Shock resistance	
• acc. to IEC 60068-2-27	8g / 11 ms
Type of protection	Ex e
Certificate of suitability relating to ATEX	DMT 98 ATEX G 001
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	F

Ambient conditions

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation	-20 ... +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-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
Operating current rated value	6.3 A

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
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

Operating 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

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	6.3 A
• at 600 V rated value	6.3 A
Contact rating of auxiliary contacts according to UL	B600 / R300

Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	76 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 circuit	No
Type of electrical connection - for main current circuit - for auxiliary and control current circuit	screw-type terminals screw-type 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 - finely stranded with core end processing - at AWG conductors for main contacts	2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm² 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 2x 12
Type of connectable conductor cross-sections - for auxiliary contacts - single or multi-stranded - finely stranded with core end processing - at AWG conductors for auxiliary contacts	2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14)
Tightening torque - for main contacts with screw-type terminals - for auxiliary contacts with screw-type terminals	0.8 ... 1.2 N·m 0.8 ... 1.2 N·m
Design of screwdriver shaft	5 ... 6 mm diameter
Design of the thread of the connection screw - for main contacts - of the auxiliary and control contacts	M3 M3

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 IEC 61508	20 y

Display

Display version for switching status	Slide switch
---	--------------

Certificates/approvals

General Product Approval	For use in hazardous locations	Declaration of Conformity
--------------------------	--------------------------------	---------------------------



Test Certificates	Shipping Approval
-------------------	-------------------

[Typprüfbescheinigung/Werkszeugnis](#)



Shipping Approval	other	Railway
-------------------	-------	---------



[Umweltbestätigung](#)

[Bestätigungen](#)

[Schwingen/Schock](#)

[n](#)

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=3RU2116-1GB0-Z X95>

Cax online generator

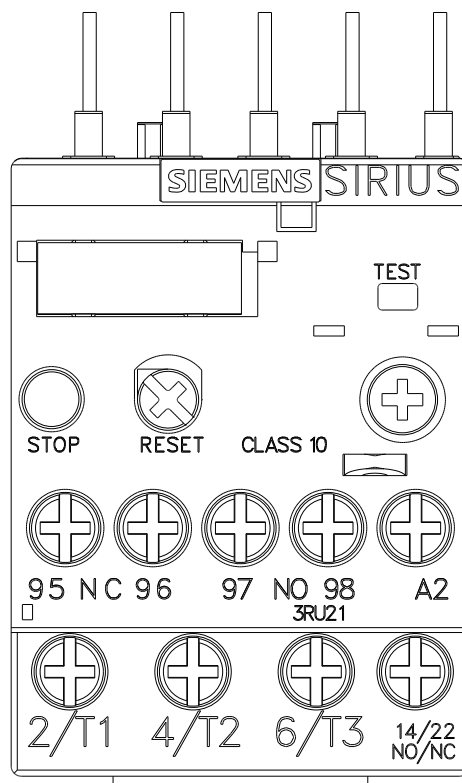
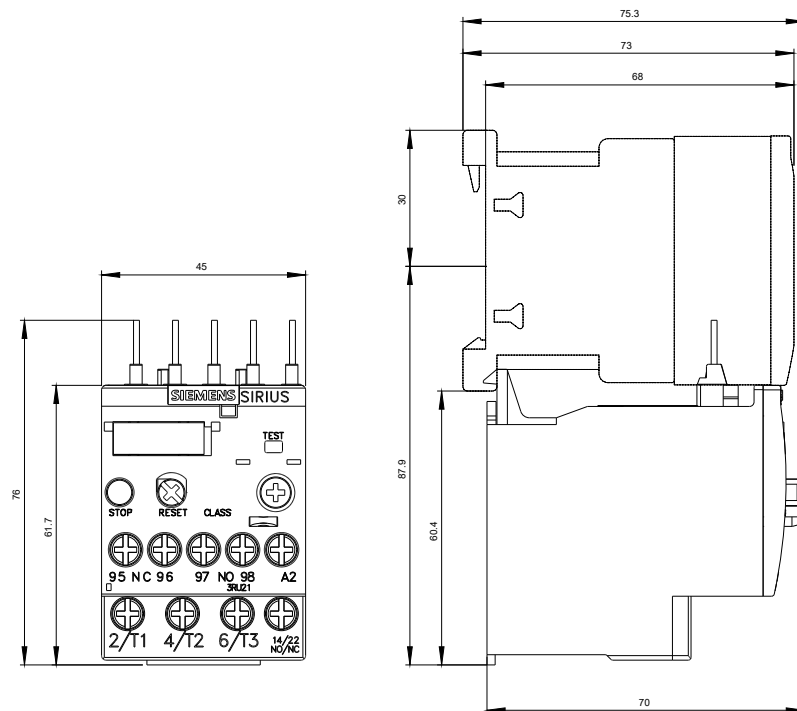
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1GB0-Z X95>

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

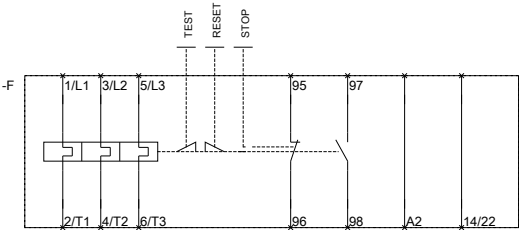
<https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1GB0-Z X95>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1GB0-Z X95&lang=en



MEIBERSCHREIBER FÜR



OVERCLOCKING FOR

last modified:

10/19/2016