

OVERLOAD RELAY 4.5...6.3 A FOR MOTOR PROTECTION SZ
S00, CLASS 10, STAND-ALONE INSTALLATION MAIN CIRCUIT:
SPRING TERMINAL AUX. CIRCUIT: SPRING TERMINAL MANUAL-
AUTOMATIC-RESET



product brand name	SIRIUS
Product designation	3RU2 thermal overload relay
General technical data:	
Size of overload relay	S00
Size of contactor can be combined company-specific	S00
Active power loss total typical	5.7 W
Insulation voltage with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance	
• acc. to IEC 60068-2-27	8g / 11 ms
Type of assignment	2
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 • during storage • during transport	-40 ... +70 °C -55 ... +80 °C -55 ... +80 °C
Temperature compensation	-40 ... +60 °C
Relative humidity during operation	0 ... 90 %

Main circuit:

Number of poles for main current circuit	3
Adjustable response value current of the current-dependent overload release	4.5 ... 6.3 A
Operating voltage • Rated value • at AC-3 Rated value maximum	690 V 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 — Note	1 for contactor disconnection
Number of NO contacts • for auxiliary contacts — Note	1 for message "Tripped"
Number of CO contacts • for auxiliary contacts	0
Operating current of the auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V • at 400 V	3 A 3 A 3 A 3 A 2 A 1 A
Operating current of the auxiliary contacts at DC-13 • at 24 V • at 110 V • at 125 V • at 220 V	2 A 0.22 A 0.22 A 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 the auxiliary contacts acc. to UL	B600 / R300
Installation/ mounting/ dimensions:	
mounting position	any
Mounting type	stand-alone installation
Height	102 mm
Width	45 mm
Depth	79 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	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-section	
• for main contacts — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG conductors for main contacts	1x (0,5 ... 4 mm ²) 1x (0.5 ... 2.5 mm ²) 1x (0.5 ... 2.5 mm ²) 1x (20 ... 12)
Type of connectable conductor cross-section	
• for auxiliary contacts — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG conductors for auxiliary contacts	2x (0,5 ... 2,5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (20 ... 14)
Design of screwdriver shaft	
5 to 6 mm diameter	
Safety related data:	
Proportion of dangerous failures	
• with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920	50 % 50 %
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
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Test Certificates	Shipping Approval
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[Typprüfbescheinigung/Werkszeugnis](#)

[spezielle Prüfbescheinigungen](#)



Shipping Approval	other
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[Umweltbestätigung](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

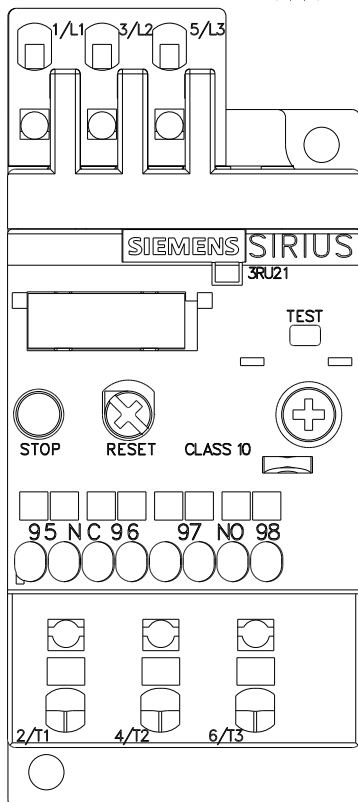
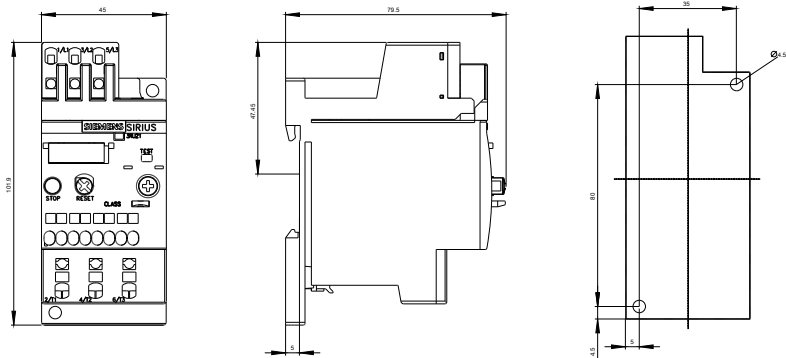
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21161GC1>

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

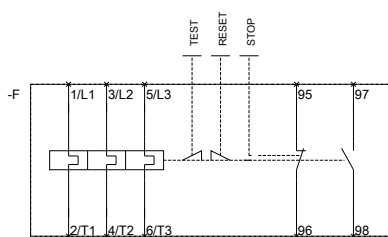
<https://support.industry.siemens.com/cs/ww/en/ps/3RU21161GC1>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU21161GC1&lang=en



MEBERRASSTREZAS FUE



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DIETROFABRICATION