SIEMENS

Data sheet 3RU2126-1FJ0



OVERLOAD RELAY 3.5...5.0 A FOR MOTOR PROTECTION SZ S0, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: RING CABLE LUG AUX. 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	S0
Size of contactor can be combined company-specific	S0
Power loss [W] total typical	6.1 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
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-	3.5 5 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	5 A
Operating power at AC-3	
• at 400 V rated value	1.5 kW
• at 500 V rated value	2.2 kW
• at 690 V rated value	4 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

Operating current of auxiliary contacts at DC-13	
• at 24 V	2 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 three-phase AC motor	
• at 480 V rated value	5 A
● at 600 V rated value	5 A

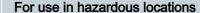
nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	85 mm
Width	45 mm
Depth	85 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
• for grounded parts	
— forwards	0 mm
— Backwards	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	ring cable connection
 for auxiliary and control current circuit 	ring cable connection
Arrangement of electrical connectors for main current circuit	Top and bottom
Tightening torque	
for ring cable lug	
— for main contacts	2.5 2 N·m
for auxiliary contacts	0.8 1.2 N·m
Outer diameter of the usable ring cable lug maximum	7.5 mm
Design of screwdriver shaft	Diameter 5 6 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 IEC 61508	20 y
Display	
Display version	
 for switching status 	Slide switch

Certificates/approvals

General Product Approval















IECEx

Declaration of	
Conformity	

Toet

Marine / Shipping









other





Railway

Marine / Shipping

RINA RI



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

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=3RU2126-1FJ0

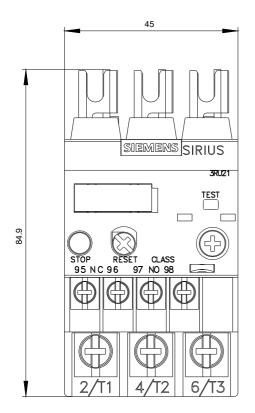
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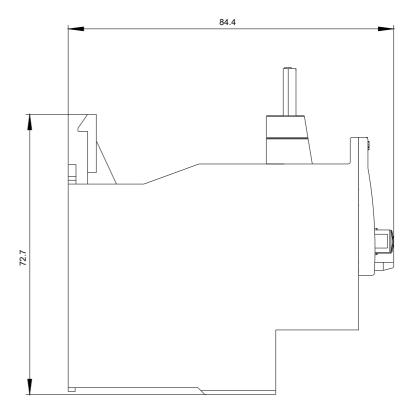
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1FJ0

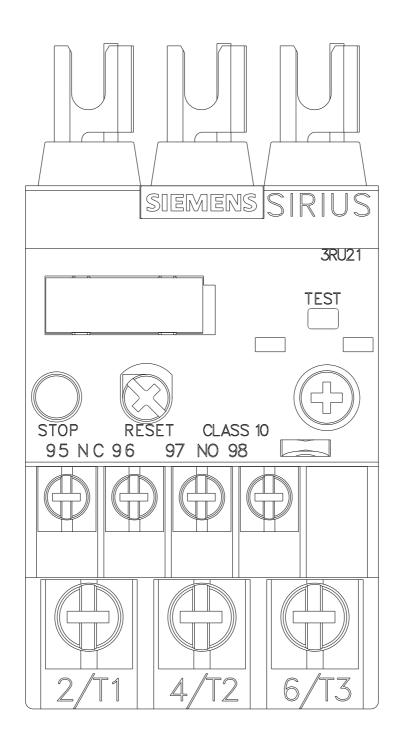
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1FJ0}}$

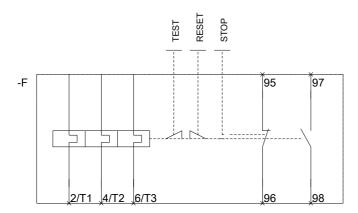
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1FJ0&lang=en







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last modified: 07/17/2017