# **SIEMENS**

Data sheet 3RU2126-4CB1

Overload relay 17...22 A Thermal For motor protection Size S0, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset



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

Size of overload relay	S0
Size of contactor can be combined company-specific	S0
Power loss [W] for rated value of the current	
• at AC in hot operating state	8.1 W
• at AC in hot operating state per pole	2.7 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	
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	440 V

<ul> <li>operating current of auxiliary contacts at AC-15 at 24 V</li> </ul>	3 A
<ul> <li>Operating current of auxiliary contacts at AC-15 at 110 V</li> </ul>	3 A
<ul> <li>Operating current of auxiliary contacts at AC-15 at 120 V</li> </ul>	3 A
<ul> <li>Operating current of auxiliary contacts at AC-15 at 125 V</li> </ul>	3 A
<ul> <li>Operating current of auxiliary contacts at AC-15 at 230 V</li> </ul>	2 A
<ul> <li>operating current of auxiliary contacts at AC-15 at 400 V</li> </ul>	1 A
<ul> <li>operating current of auxiliary contacts at DC-13 at 24 V</li> </ul>	2 A
<ul> <li>Operating current of auxiliary contacts at DC-13 at 60 V</li> </ul>	0.3 A
<ul> <li>Operating current of auxiliary contacts at DC-13 at 110 V</li> </ul>	0.22 A
<ul> <li>operating current of auxiliary contacts at DC-13 at 125 V</li> </ul>	0.22 A
<ul> <li>Operating current of auxiliary contacts at DC-13 at 220 V</li> </ul>	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
JL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	22 A
• at 600 V rated value	22 A
Short-circuit protection	
Design of the fuse link	

Design of the fuse link

• for short-circuit protection of the auxiliary switch required

fuse gG: 6 A, quick: 10 A

Installation/ mounting/ dimensions		
<ul><li>mounting position</li></ul>	any	
Mounting type	stand-alone installation	
Height	97 mm	
Width	45 mm	
Depth	95 mm	

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Product function

• removable terminal for auxiliary and control	No	
circuit		
<ul> <li>Type of electrical connection for main current circuit</li> </ul>	screw-type terminals	
<ul> <li>Type of electrical connection for auxiliary and control current circuit</li> </ul>	screw-type terminals	
Arrangement of electrical connectors for main current circuit	Top and bottom	
Type of connectable conductor cross-sections		
• for main contacts		
<ul> <li>single or multi-stranded</li> </ul>	1x (1 2,5 mm²), 1x (2,5 10 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)	
Type of connectable conductor cross-sections		
• for auxiliary contacts		
<ul> <li>single or multi-stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)	
Tightening torque		
• for main contacts with screw-type terminals	2 2.5 N·m	
• for auxiliary contacts with screw-type terminals	0.8 1.2 N·m	
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	M4	
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3	
Safety related data		
Failure rate [FIT]		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	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**















**IECE**x

#### **Declaration of Conformity**

**Test Certificates** 

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





## Marine / Shipping

other



LRS









Confirmation

## Railway

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=3RU2126-4CB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4CB1

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

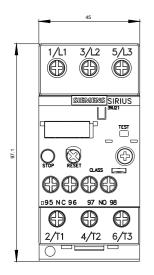
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CB1

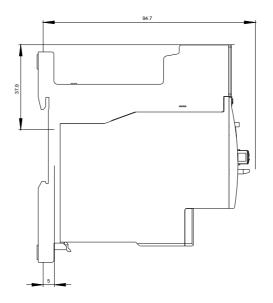
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-4CB1\&lang=en}}$ 

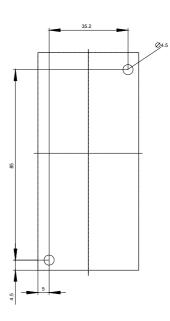
Characteristic: Tripping characteristics, I2t, Let-through current

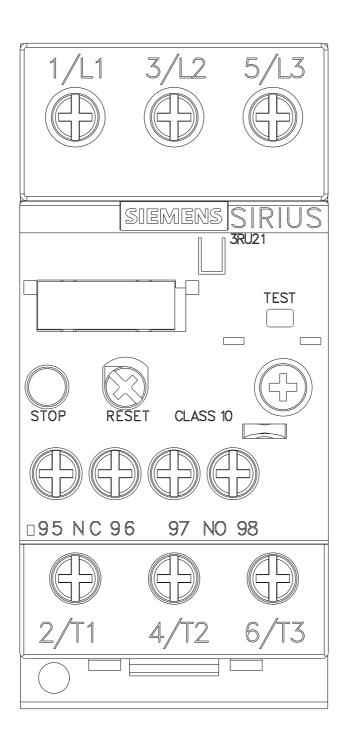
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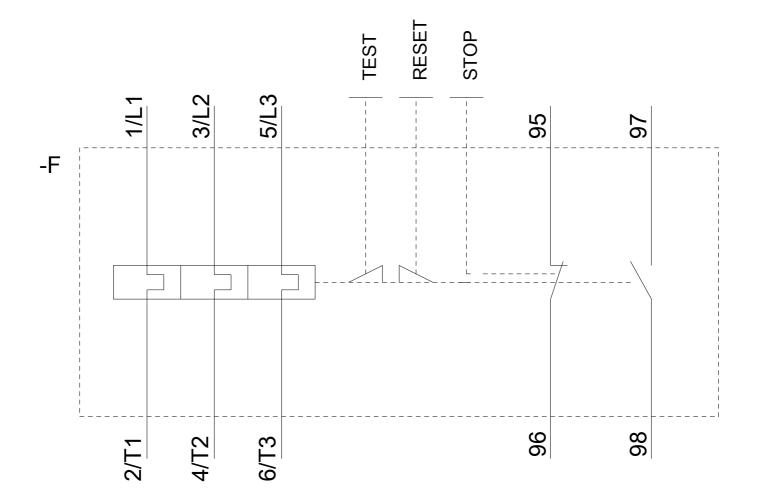
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4CB1&objecttype=14&gridview=view1











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