## **SIEMENS**

Data sheet 3RU2126-4NB1



Overload relay 23...28 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	
General technical data		
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	9.6 W	
• per pole	3.2 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 protective separation in networks with grounded star point		
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V	
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V	
between main and auxiliary circuit	440 V	
shock resistance according to IEC 60068-2-27	8g / 11 ms	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD	
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001	
reference code according to IEC 81346-2	F	
Substance Prohibitance (Date)	10/01/2009	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul><li>during operation</li></ul>	-40 +70 °C	
<ul><li>during storage</li></ul>	-55 +80 °C	
during transport	-55 +80 °C	
temperature compensation	-40 +60 °C	
relative humidity during operation	10 95 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the current-dependent overload release	23 28 A	
operating voltage		
rated value	690 V	
at AC-3e rated value maximum	690 V	
operating frequency rated value	50 60 Hz	

operational ourrent rated value	20 A
operational current at AC 22 at 400 V rated value	28 A
operational current at AC-3e at 400 V rated value	28 A
operating power  • at AC-3	
at AC-3  — at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW 22 kW
— at 690 V rated value ● at AC-3e	ZZ KVV
	15 kW
— at 400 V rated value — at 500 V rated value	18.5 kW
— at 690 V rated value  — at 690 V rated value	22 kW
	ZZ KVV
Auxiliary circuit	intermeted
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1 for contactor disconnection
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
• note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	2 A
• at 24 V	3 A 3 A
• at 110 V	
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
operational current of auxiliary contacts at DC-13  • at 24 V	2 A
• at 60 V	0.3 A
• at 110 V	0.22 A 0.22 A
• at 125 V	
at 220 V  contact rating of auxiliary contacts according to UL	0.11 A B600 / R300
Protective and monitoring functions	B000 / R300
	OLACC 40
trip class  design of the overload release	CLASS 10
	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	20.4
at 480 V rated value	28 A
at 600 V rated value	28 A
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the auxiliary switch required.	fuse gG: 6 A, quick: 10 A
required Installation/ mounting/ dimensions	
	any
mounting position fastening method	any stand-alone installation
height	97 mm
width	45 mm
depth	95 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	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
at AWG cables for main contacts	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or 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 cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	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	
<ul> <li>for main contacts</li> </ul>	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
MTTF with high demand rate	2 280 y
T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Slide switch
Certificates/ approvals	

**General Product Approval** 

For use in hazardous locations



Confirmation









For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



## Marine / Shipping













other Railway

Confirmation 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=3RU2126-4NB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4NB1

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

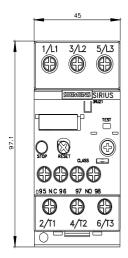
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4NB1

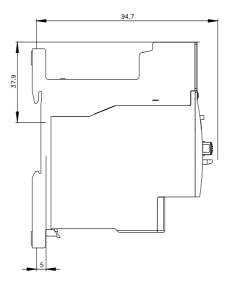
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-4NB1&lang=en

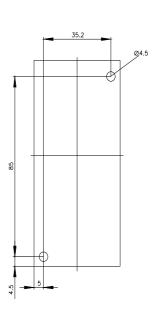
Characteristic: Tripping characteristics, I2t, Let-through current

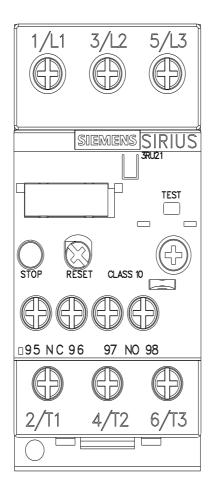
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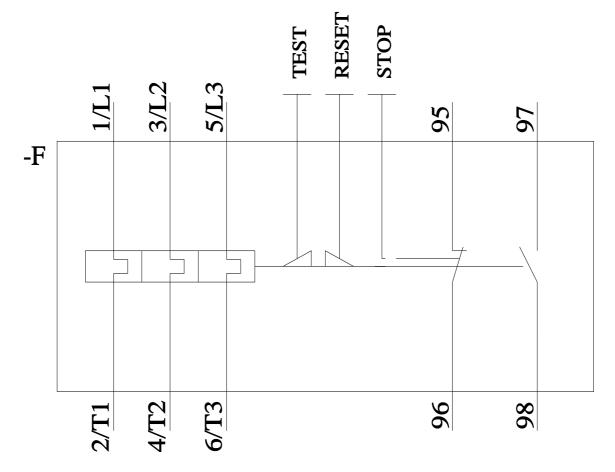
Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4NB1&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4NB1&objecttype=14&gridview=view1</a>











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