## **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		
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	8.1 W		
• 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 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 acc. 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 acc. to IEC 81346-2	F		
Substance Prohibitance (Date)	01.10.2009 00:00:00		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-40 +70 °C		
during storage	-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	17 22 A		
operating voltage			
rated value	690 V		
at AC-3 rated value maximum	690 V		
operating frequency rated value	50 60 Hz		

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operational current rated value	22 A		
operating power at AC-3			
• at 400 V rated value	11 kW		
• at 500 V rated value	11 kW		
at 690 V rated value	18.5 kW		
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		
operational 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		
operational current of auxiliary contacts at DC-13	2.4		
• at 24 V	2 A		
• at 60 V	0.3 A		
• at 110 V	0.22 A 0.22 A		
• at 125 V	0.22 A 0.11 A		
at 220 V  contact rating of auxiliary contacts according to UL	0.11 A B600 / R300		
Protective and monitoring functions			
trip class	CLASS 10		
design of the overload release	thermal		
UL/CSA ratings	ulomid		
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	22 A		
at 400 V rated value     at 600 V rated value	22 A		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the auxiliary switch	fuse gG: 6 A, quick: 10 A		
required			
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	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)		
— finely stranded with core end processing	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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
for auxiliary contacts			
— solid or stranded	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			
for main contacts with screw-type terminals	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 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		
protection class IP on the front acc. to IEC 60529	IP20		
touch protection on the front acc. 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	













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=3RU2126-4CB1

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, ...)

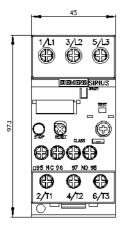
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-4CB1&lang=en

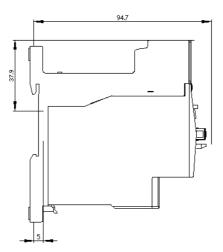
 $\label{lem:characteristic} \textbf{Characteristics}, \textbf{I}^{\textbf{2}}\textbf{t}, \textbf{Let-through current}$ 

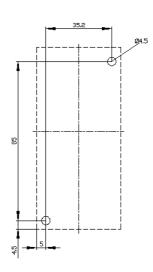
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CB1/char

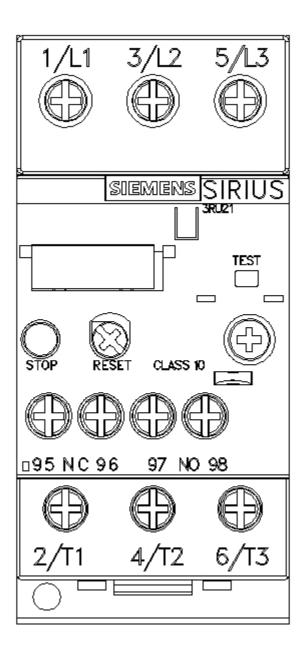
Further characteristics (e.g. electrical endurance, switching frequency)

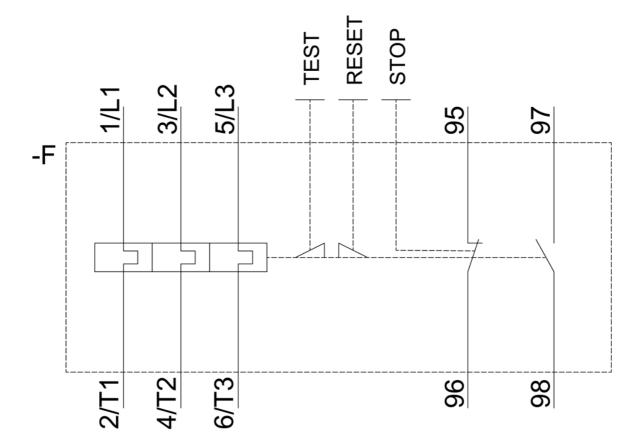
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4CB1&objecttype=14&gridview=view1











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