# SIEMENS

### Data sheet

## 3RU2126-1CB0



Overload relay 1.8...2.5 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS
product brand name product designation	thermal overload relay
product designation	3RU2
General technical data	51/02
size of overload relay	\$0
size of contactor can be combined company-specific	S0
power loss [W] for rated value of the current at AC in hot	5.7 W
operating state	
• per pole	1.9 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	
<ul> <li>in networks with ungrounded 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 ungrounded star point between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	440 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.18 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-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	1.8 2.5 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	2.5 A

operational ourrant at AC 2a at 400 V rated value	25 4
operational current at AC-3e at 400 V rated value	2.5 A
operating power	
• at AC-3	
— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
• at AC-3e	
— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 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
• at 690 V	0.75 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
• 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 3-phase AC motor	
	2.5 A
<ul> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	2.5 A 2.5 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	
<ul> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	
full-load current (FLA) for 3-phase AC motor       • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link	2.5 A
full-load current (FLA) for 3-phase AC motor       • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required	2.5 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	2.5 A fuse gG: 6 A, quick: 10 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	2.5 A fuse gG: 6 A, quick: 10 A any
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
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full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No
full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No
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full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         — solid or stranded	2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )

<ul> <li>for auxiliary cont</li> </ul>	tacts	5			
— solid or stra			2x (0.5 1.5 mm²), 2x (0.75 .	2.5 mm <sup>2</sup> )	
	ided with core end process	sina	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
	for auxiliary contacts	Sing	2x (0.5 1.5 mm ), 2x (0.75 2.5 mm ) 2x (20 16), 2x (18 14)		
tightening torque			EX (20 10), EX (10 11)		
	s with screw-type terminal	s	2 2.5 N·m		
	tacts with screw-type term		0.8 1.2 N·m		
design of screwdriver shaft		 Diameter 5 6 mm			
size of the screwdriver tip		Pozidriv PZ 2			
	of the connection screw				
for main contacts			M4		
<ul> <li>of the auxiliary and control contacts</li> </ul>		MI <del>I</del> M3			
safety related data					
failure rate [FIT] with low demand rate according to SN 31920		50 FIT			
MTTF with high demand rate		2 280 a			
IEC 61508					
T1 value     of r proof test interval or service life according to IEC     61508		ing to IEC	20 a		
Electrical Safety					
•	n the front according to I	EC 60529	IP20		
•	he front according to IE(		finger-safe, for vertical contact	t from the front	
Display					
display version for swit	ching status		Slide switch		
Approvals Certificates					
	CE	UK	<u>Confirmation</u>	(h)	EAC
	CE EG-Konf.	UK CA	<u>Confirmation</u>		EHC
CCC For use in hazardous		Test Certificate	es	UL Marine / Shipping	EHC
For use in hazardous			es tific- <u>Special Test Certific-</u>	Warine / Shipping	
IECE×		Test Certificate	es tific- <u>Special Test Certific-</u>	Weight of the control	CONTRACTOR OF STATEMENT
IECEx		Test Certificate	es tific- <u>Special Test Certific-</u>	Marine / Shipping	<image/>
IECEx Narine / Shipping	s locations	Test Certificate	es tific- <u>Special Test Certific-</u>	Marine / Shipping         Output	
IECEx Marine / Shipping	s locations	Test Certificate	es tific- <u>Special Test Certific-</u>	UL Marine / Shipping Wass	

#### Cax online generator

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4/T2 6/T3

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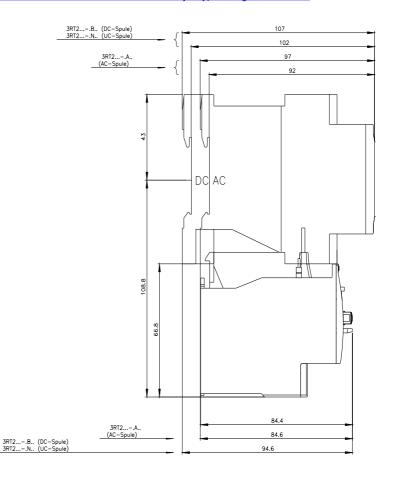
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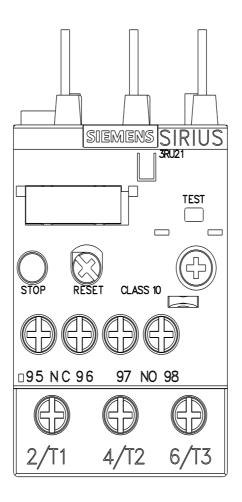
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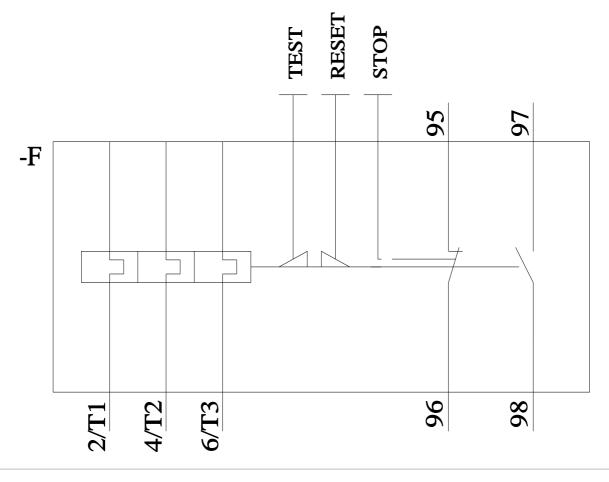
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1CB0/char

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

earch&mlfb=3RU2126-1CB0&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S







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