## SIEMENS

## Data sheet

## 3RU2126-1HB0



Overload relay 5.5...8.0 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 designation	thermal overload relay		
product type designation	3RU2		
General technical data			
size of overload relay	SO		
size of contactor can be combined company-specific	S0		
power loss [W] for rated value of the current at AC in hot operating state	6.6 W		
• per pole	2.2 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			
<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	0.187 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-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 %		
Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
global warming potential [CO2 eq] total	56.6 kg		
global warming potential [CO2 eq] during manufacturing	1.21 kg		
global warming potential [CO2 eq] during sales	0.047 kg		
global warming potential [CO2 eq] during operation	55.4 kg		
global warming potential [CO2 eq] after end of life	-0.027 kg		
Main circuit			
number of poles for main current circuit	3		

adjustable current response value current of the current- dependent overload release	5.5 8 A				
operating voltage					
rated value	690 V				
at AC-3e rated value maximum	690 V				
operating frequency rated value	 50 60 Hz				
operational current rated value	8 A				
•	8 A				
operational current at AC-3e at 400 V rated value	0 A				
operating power					
• at AC-3	0.1344				
— at 400 V rated value	3 kW				
— at 500 V rated value	4 kW				
— at 690 V rated value	5.5 kW				
• at AC-3e					
— at 400 V rated value	3 kW				
— at 500 V rated value	4 kW				
— at 690 V rated value	5.5 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					
at 480 V rated value	8 A				
• at 600 V rated value	8 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				
Installation/ mounting/ dimensions					
mounting position	for mounting on contactors: with a vertical mounting plane +/-135° rotatable &				
	+/- 22.5° tiltable, stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual				
fastening method	Contactor mounting				
height	85 mm				
width	45 mm				
depth	85 mm				
Connections/ Terminals					
product component removable terminal for auxiliary and control circuit	No				
type of electrical connection					
for main current circuit	screw-type terminals				

f	d t t tt						
for auxiliary and control circuit     arrangement of electrical connectors for main current			screw-type terminals				
arrangement of elect circuit	trical connectors for mai	n current	Top an	id bottom			
type of connectable	conductor cross-section	s					
<ul> <li>for main contact</li> </ul>							
— solid or st			2x (1	. 2.5 mm²), 2x (2.5 1	0 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>			2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>				
for AWG cables for main contacts			2x (16 12), 2x (14 8)				
	conductor cross-section	e	27 (10	12), 27 (14 0)			
<ul> <li>for auxiliary cor</li> </ul>		3					
			2x (0 5	$1.5 \text{ mm}^2$ 2x (0.75	$2.5 \text{ mm}^{2}$		
<ul> <li>— solid or stranded</li> <li>finally stranded with core and processing</li> </ul>			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>			2x (0.5 1.5 mm <sup>-</sup> ), 2x (0.75 2.5 mm <sup>-</sup> ) 2x (20 16), 2x (18 14)				
	s for auxiliary contacts		ZX (20	10), 2X (18 14)			
tightening torque	4	1-	0 01	- NI			
	ts with screw-type termina		2 2.5 N·m				
	<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>			0.8 1.2 N·m			
design of screwdrive			-	ter 5 6 mm			
size of the screwdriv			Pozidri	iv PZ 2			
design of the thread	of the connection screw						
<ul> <li>for main contact</li> </ul>			M4				
<ul> <li>of the auxiliary</li> </ul>	• of the auxiliary and control contacts M3						
Safety related data							
failure rate [FIT] with 31920	low demand rate accord	ling to SN	50 FIT				
MTTF with high dem	and rate		2 280 a	а			
IEC 61508							
T1 value							
	<ul> <li>for proof test interval or service life according to IEC</li> </ul>		20 a				
Electrical Safety							
	on the front according to	IEC 60529	IP20				
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front					
Display		0 00020	migor				
display version for swi	itobing status		Slide s	witch			
Approvals Certificates	÷		Slide S	witch			
Approvais Certificates							
General Product Ap	proval					For use in hazard- ous locations	
	UK CA	CE EG-Konf.		UL.	EHC	IECEX	
For use in hazardou	s locations	Test Certificate	es		Maritime application		
ATEX ATEX	<u>Miscellaneous</u>	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	
Maritime application	1					other	
	Lloyd's Register us	PRS		RINA	RMRS RMRS	Miscellaneous	
other	Railway	Environment					



Special Test Certificate



Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RU2126-1HB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1HB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1HB0

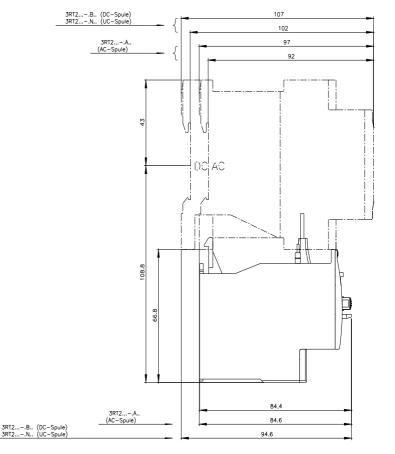
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

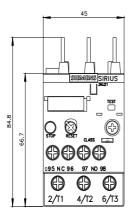
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-1HB0&lang=en

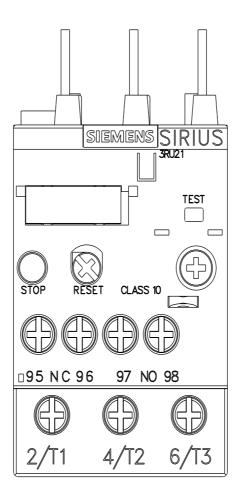
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

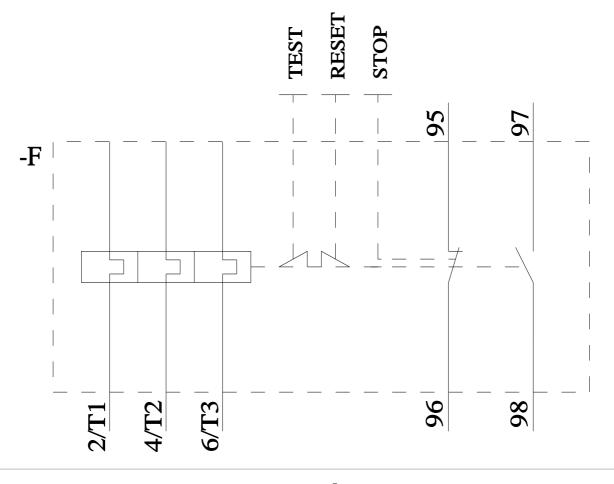
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1HB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1HB0&objecttype=14&gridview=view1









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