## SIEMENS

## Data sheet

## 3RU2126-4BB1



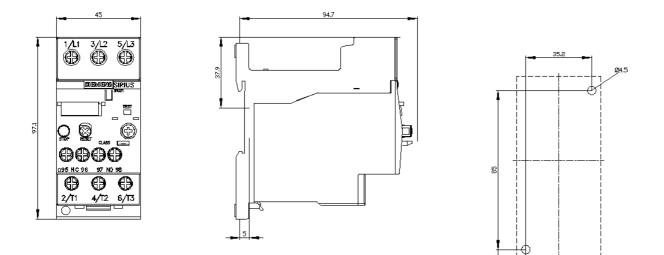
Overload relay 14...20 A Thermal For motor protection Size S0, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

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		
<ul> <li>between main and auxiliary circuit</li> </ul>	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		
<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	14 20 A		
operating voltage			
rated value	690 V		
at AC-3 rated value maximum	690 V		
operating frequency rated value	50 60 Hz		

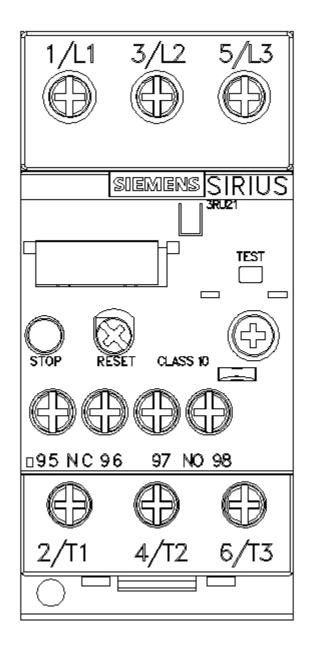
operational current rated value	20 A		
operating power at AC-3			
<ul> <li>at 400 V rated value</li> </ul>	7.5 kW		
<ul> <li>at 500 V rated value</li> </ul>	11 kW		
• at 690 V rated value	15 kW		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	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			
• 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	unenniai		
full-load current (FLA) for 3-phase AC motor	20.4		
at 480 V rated value	20 A		
• at 600 V rated value	20 A		
Short-circuit protection			
design of the fuse link			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 6 A, quick: 10 A		
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			
	1x (1 2,5 mm²), 1x (2,5 10 mm²)		
— solid or stranded			
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>			
- finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
<ul><li>finely stranded with core end processing</li><li>at AWG cables for main contacts</li></ul>			
<ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> </ul> </li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8)		
<ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		

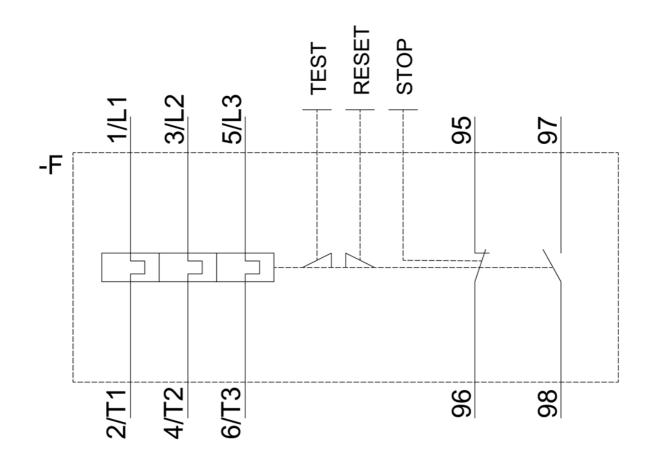
	- <b>f</b>		0(0	0 40 0. (40 44)			
	s for auxiliary contacts		_	0 16), 2x (18 14)			
tightening torque	ata with a move to ma tarma	inele					
<ul> <li>for main contacts with screw-type terminals</li> </ul>			2 2.5 N·m				
for auxiliary contacts with screw-type terminals				0.8 1.2 N·m			
design of screwdriver shaft				Diameter 5 6 mm			
size of the screwdr			Pozic	driv PZ 2			
•	d of the connection sci	rew					
for main contacts			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 t IEC 61508	test interval or service	life acc. to	20 y				
protection class IP	on the front acc. to IEC	C 60529	IP20	IP20			
touch protection of	n the front acc. to IEC 6	60529	finger-safe, for vertical contact from the front				
Display							
display version for s	witching status		Slide	switch			
Certificates/ approva	•						
General Product A					For use in hazardo	ous locations	
General Froduct A	(ppi ovai				FOI USE III IIdzaluu		
(SP)	CCC	(ل) س		EHC	IECEx	K ATEX	
Declaration of Conformity	Test Certificates			Marine / Shipping			
EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Ce</u> ates/Test Re		ABS	BUREAU VERITAS	Lloyd's Register urs	
Marine / Shipping					other	Railway	
PRS	RINA	RMRS R		DNV-GL	<u>Confirmation</u>	Vibration and Shock	
Further information	ownloadcenter (Catalo	as. Brochures	)				
https://www.siemens Industry Mall (Onlin https://mall.industry. Cax online generat http://support.autom Service&Support (I	s.com/ic10 ne ordering system) siemens.com/mall/en/en.	/Catalog/product CAXorder/defau Characteristics,	t?mlfb= llt.aspx? FAQs,	Plang=en&mlfb=3RU21	<u>26-4BB1</u>		
Image database (pr http://www.automati Characteristic: Trip https://support.indus	roduct images, 2D dime on.siemens.com/bilddb/c oping characteristics, I <sup>2</sup> stry.siemens.com/cs/ww/e stics (e.g. electrical end	ension drawing ax_de.aspx?mlf t, Let-through c en/ps/3RU2126-	s, 3D m b=3RU2 current 4BB1/c	<u>2126-4BB1⟨=en</u> <u>har</u>	diagrams, EPLAN m	acros,)	

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4BB1&objecttype=14&gridview=view1



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