## SIEMENS

## Data sheet

## 3RU2126-4BC1



Overload relay 14...20 A Thermal For motor protection Size S0, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal 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 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	14 20 A	
operating voltage		
<ul> <li>rated value</li> </ul>	690 V	
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V	
operating frequency rated value	50 60 Hz	

operational ourrent rated value	20 A
operational current rated value	20 A 20 A
operational current at AC-3e at 400 V rated value	20 A
operating power • at AC-3	
- at 400 V rated value	7.5 kW
— at 500 V rated value	1.5 KW
	15 kW
— at 690 V rated value	15 KVV
• at AC-3e	7.5 1014
— at 400 V rated value	7.5 kW
— at 500 V rated value	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 for contactor disconnection
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1 for more and "Trianged"
• note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	2.4
• 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	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	20 A
<ul> <li>at 600 V rated value</li> </ul>	20 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	114 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	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections • for main contacts	
solid or stranded	$1 \times (1  10 \text{ mm}^2)$
	1x (1 10 mm²)

— finely stra	nded with core end processing	1x (1 6 mm²)			
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> </ul>		1x (1 6 mm²)			
at AWG cables	for main contacts	1x (18 8)			
type of connectable	conductor cross-sections				
<ul> <li>for auxiliary cor</li> </ul>					
— solid or st		2x (0.5 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)			
— finely stranded without core end processing		2x (0.5 1.5 mm²)			
at AWG cables for auxiliary contacts		2x (20 14)			
design of screwdriver shaft		Diameter 3 mm			
size of the screwdriver tip		3,0 x 0,5 mm	3,0 x 0,5 mm		
Safety related data					
failure rate [FIT] with 31920	low demand rate according to SN	50 FIT			
MTTF with high den	nand rate	2 280 y			
T1 value for proof tes IEC 61508	t interval or service life according to	20 у			
protection class IP 660529	on the front according to IEC	IP20	IP20		
touch protection on	the front according to IEC 60529	finger-safe, for vertical	contact from the front		
Display					
display version for sw	vitching status	Slide switch			
Certificates/ approva	-				
				For use in hazard-	
	Confirma	ation 🦱			
(S) M	Confirma		EHC	ATEX	
For use in hazard- ous locations		Test Certificate	EAC	Marine / Shipping	
	ccc	Test Certificate	fic- Special Test Certific-	Marine / Shipping	
ous locations	Declaration of Conformity	Test Certificate	fic- Special Test Certific-	۲	
ous locations	Declaration of Conformity	Test Certificate	fic- Special Test Certific-	۲	
ous locations	Declaration of Conformity UK EG-Korn	Test Certificate	fic- Special Test Certific-	۲	
ous locations	CCC Declaration of Conformity UK EG-Kon	Test Certificate	fic- Special Test Certific-	۲	

**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=3RU2126-4BC1 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4BC1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4BC1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-4BC1&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4BC1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4BC1&objecttype=14&gridview=view1

last modified:

3/8/2022 🖸