## SIEMENS

## Data sheet

## 3RU2126-1FJ0



Overload relay 3.5...5.0 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable lug Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	0102
size of overload relay	S0
size of contactor can be combined company-specific	SO
power loss [W] for rated value of the current at AC in hot	6.6 W
operating state	
• 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 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	3.5 5 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

anarational autrent rated value	E A
operational current rated value operational current at AC-3e at 400 V rated value	5 A 5 A
operational current at AC-3e at 400 V rated value	
• at AC-3	
• at AC-3 — at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	2.2 KW 4 kW
• at AC-3e	4 KVV
• at AC-3e — at 400 V rated value	1.5 kW
	2.2 kW
— at 500 V rated value — at 690 V rated value	2.2 KW 4 kW
Auxiliary circuit	4 KVV
	integrated
design of the auxiliary switch number of NC contacts for auxiliary contacts	integrated 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	1A
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	5 A
• at 600 V rated value	5 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	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	Ring cable lug connection
for auxiliary and control circuit	ring terminal lug connection
arrangement of electrical connectors for main current circuit	Top and bottom
tightening torque	
for main contacts for ring cable lug	2.5 2 N·m
<ul> <li>for main contacts for ring cable lug</li> </ul>	0.8 1.2 N·m

outer diameter of th	ne usable ring cable lug	maximum	7.5 mm		
design of screwdriv			Diameter 5 6 mm		
size of the screwdriver tip		Pozidriv PZ 2			
design of the thread	d of the connection scre	w			
for main contacts		M4			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3			
Safety related data					
failure rate [FIT] with 31920	failure rate [FIT] with low demand rate according to SN 31920		50 FIT		
MTTF with high demand rate		2 280 y			
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to IEC 61508		20 у		
protection class IP 60529	on the front according to	o IEC	IP00		
Display					
display version for sv	vitching status		Slide switch		
Certificates/ approva	ls				
General Product A	pproval				For use in hazard- ous locations
SP:	<b>&gt;&gt;</b>	<u>Confirmatio</u>	<u> </u>	FAL	<b>IECE</b> ×
CSA	ccc		UL		IECEx
For use in hazard- ous locations	ccc Declaration of Confor	rmity	UL Test Certificates	LIIL	IECEx Marine / Shipping
	CCC Declaration of Confor	rmity CE EG-Konf.	UL Test Certificates Special Test Certific- ate	Type Test Certific- ates/Test Report	
		CE	Special Test Certific-	Type Test Certific- ates/Test Report	
ous locations		CE	Special Test Certific-	LINE Type Test Certific- ates/Test Report	
ous locations	UK CA	EG-Konf.	Special Test Certific-	LINE Type Test Certific- ates/Test Report	

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=3RU2126-1FJ0
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1FJ0
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1FJ0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1FJ0⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1FJ0/char

## Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1FJ0&objecttype=14&gridview=view1

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