## SIEMENS

## Data sheet

## 3RU2126-4FC1



Overload relay 34...40 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	SO		
size of contactor can be combined company-specific	SO		
power loss [W] for rated value of the current at AC in hot operating state	9.6 W		
• per pole	3.2 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	34 40 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 current rated value	40 A
operational current at AC-3e at 400 V rated value	40 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
● at AC-3e	
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
	57 NW
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 200 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	40 A
at 600 V rated value	40 A
Short-circuit protection	
design of the fuse link	fuer and 6 A quick 10 A
<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	114 mm
width	45 mm
depth	95 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	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	1x (1 10 mm²)
	. ,

— finely stra	nded with core end processing	1x (1	l 6 mm²)			
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> </ul>		1x (1	1x (1 6 mm²)			
<ul> <li>at AWG cables</li> </ul>	for main contacts	1x (1	1x (18 8)			
type of connectable	conductor cross-sections					
<ul> <li>for auxiliary con</li> </ul>	ntacts					
— solid or st	randed		2x (0.5 2.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— finely stranded without core end processing		2x (0	2x (0.5 1.5 mm²)			
at AWG cables for auxiliary contacts			2x (20 14)			
design of screwdriver shaft		Diam	Diameter 3 mm			
size of the screwdriver tip		3,0 x	3,0 x 0,5 mm			
Safety related data						
failure rate [FIT] with low demand rate according to SN 31920		50 F	50 FIT			
MTTF with high demand rate		2 280	0 у			
T1 value for proof test interval or service life according to IEC 61508		20 y				
protection class IP 60529	on the front according to IEC	IP20	IP20			
touch protection on	the front according to IEC 60529	finge	er-safe, for vertical cont	tact from the front		
Display						
display version for sw	/itching status	Slide	e switch			
Certificates/ approva	-					
General Product A					For use in hazard-	
			/ 11. \			
Ĩ.				FHT	ATEX	
For use in hazard- ous locations	Declaration of Conformity		UL Test Certificates	FHI	Marine / Shipping	
		C	Test Certificates	EHL Special Test Certific- ate	Marine / Shipping	
ous locations		C	Type Test Certific-			
ous locations		onf.	Type Test Certific-		۲	
ous locations	Declaration of Conformity	onf.	Type Test Certific-		۲	
ous locations	Declaration of Conformity	onf.	Type Test Certific-		۲	
ous locations	Declaration of Conformity	onf.	Type 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=3RU2126-4FC1 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4FC1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4FC1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-4FC1&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4FC1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4FC1&objecttype=14&gridview=view1

last modified:

3/8/2022 🖸