SIEMENS

Data sheet

3RU2126-4EB1



Overload relay 27...32 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	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			
 between auxiliary and auxiliary circuit 	440 V		
 between auxiliary and auxiliary circuit 	440 V		
 between main and auxiliary circuit 	440 V		
 between main and auxiliary circuit 	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			
 during operation 	-40 +70 °C		
 during storage 	-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	27 32 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	32 A
operational current at AC-3e at 400 V rated value	32 A
operating power	
• at AC-3	
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 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	
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	
at 480 V rated value	32 A
at 600 V rated value	32 A
Short-circuit protection	52 A
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
	201/
mounting position	any stand along installation
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	
a for main ourrant aircuit	a supervise the supervise state
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
for auxiliary and control circuit arrangement of electrical connectors for main current	
 for auxiliary and control circuit arrangement of electrical connectors for main current circuit 	screw-type terminals
for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	screw-type terminals
 for auxiliary and control circuit arrangement of electrical connectors for main current circuit 	screw-type terminals

— finelv stra						
finely stranded with core end processingat AWG cables for main contacts		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8)				
			2X (1	10 12), 2x (14 8)		
	e conductor cross-section	ons				
 for auxiliary co 	ntacts					
— solid or st	randed		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 		ssing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables for auxiliary contacts 			2x (20 16), 2x (18 14)			
tightening torque						
 for main contacts with screw-type terminals 			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 screwdriver tip				driv PZ 2		
		NW/	1 021			
design of the thread of the connection screw			M4			
for main contactsof the auxiliary and control contacts						
-	and control contacts		M3			
Safety related data						
failure rate [FIT] with 31920	low demand rate accordi	ng to SN	50 F	ΊΤ		
MTTF with high den	nand rate		2 28	0 у		
T1 value for proof tes IEC 61508	st interval or service life a	ccording to	20 y			
protection class IP 60529	on the front according t	o IEC	IP20)		
touch protection on	the front according to	IEC 60529	finge	er-safe, for vertical conta	ct from the front	
Display						
display version for sv	vitching status		Slide	e switch		
Certificates/ approva	ls					
						For use in hazard-
General Product A	pproval					ous locations
General Product A	pproval					
General Product A	pproval	<u>Confirmatio</u>	<u>in</u>	(U) UL	EAC	
General Product A	pproval		'n	UL UL	EAC	ous locations
For use in hazard-	<u>س</u> ددد		'n	Test Certificates Special Test Certific- ate	ERF Type Test Certific- ates/Test Report	ous locations
For use in hazard-	ccc	rmity CE	'n	Special Test Certific-		ous locations
For use in hazard- ous locations	ccc	rmity CE	'n	Special Test Certific-		ous locations
For use in hazardous locations	Declaration of Confo UKC	rmity CE EG-Konf,	n	Special Test Certific-		ous locations
For use in hazardous locations	Declaration of Confo UKCA	rmity CE EG-Konf,	'n	Special Test Certific-		ous locations

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=3RU2126-4EB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4EB1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4EB1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4EB1&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4EB1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4EB1&objecttype=14&gridview=view1

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