SIEMENS

Data sheet

3RU2126-4CC1



Overload relay 17...22 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	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	
 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	17 22 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	22 A
operational current at AC-3e at 400 V rated value	22 A

operating power	
 at AC-3 at 400 V rated value 	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 kW
• at AC-3e	10.3 KW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 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 ● at 690 V	1 A 0.75 A
	0.75 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	22 A
• at 600 V rated value	22 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	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 and control circuit	No
type of electrical connection	perior looked terminals
for main current circuit	spring-loaded terminals
for auxiliary and control circuit arrangement of electrical connectors for main current	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 stranded with core end processing 	1x (1 6 mm²)
 finely stranded without core end processing 	1x (1 6 mm²)
type of connectable conductor cross-sections • for auxiliary contacts	
,	

 — finely stra ● at AWG cables design of screwdriv size of the screwdri 	nded with core end proces nded without core end pro- s for auxiliary contacts /er shaft	-	2x (0.5 2x (0.5 2x (20	ter 3 mm	5 2.5 mm²)		
Safety related data	low demand rate accordin	a to SN	50 FIT		_		
31920							
MTTF with high demand rate T1 value for proof test interval or service life according to			2 280 a 20 a				
IEC 61508		-	20 a				
protection class IP (60529	on the front according to	IEC	IP20				
touch protection on	the front according to I	EC 60529	finger-safe, for vertical contact from the front				
Display							
display version for sw	-		Slide s	Slide switch			
Certificates/ approva						For use in hazard-	
General Product A	pproval					ous locations	
() E	CCC	<u>Confirmatio</u>	<u>nc</u>		EAC	ATEX	
For use in hazard- ous locations	Declaration of Confor	mity		Test Certificates		Marine / Shipping	
IECE×	UK CA	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping							
BUREAU VERITAS		Lloyd's Register uis		PRS	RINA	RMRS	
other	Railway						
Confirmation	Vibration and Shock						

 Further information

 Information on the packaging

 https://support.industry.siemens.com/cs/ww/en/view/109813875

 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=3RU2126-4CC1

 Cax online generator

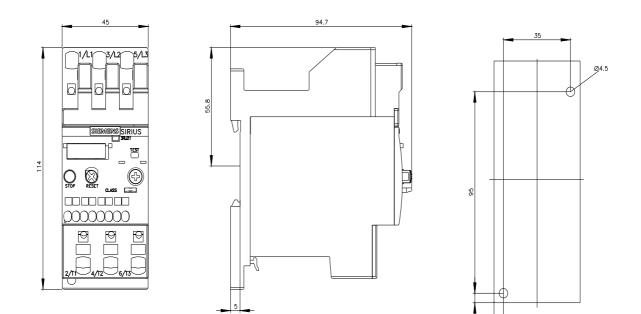
 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4CC1

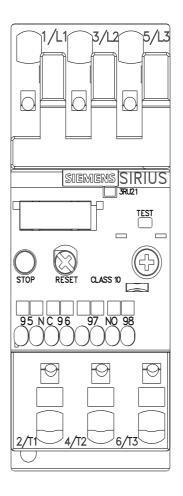
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

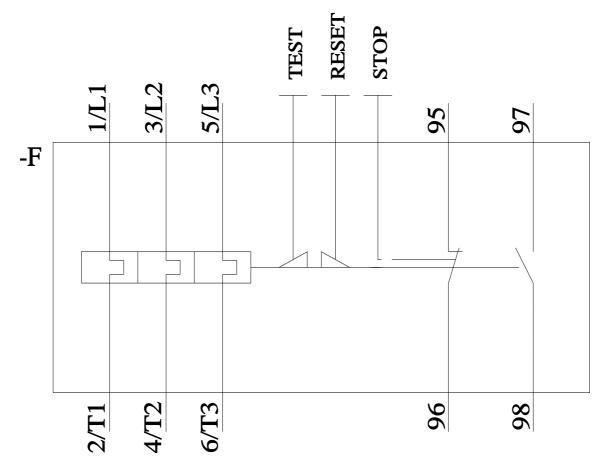
 https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CC1

 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4CC1&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CC1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4CC1&objecttype=14&gridview=view1







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