SIEMENS

Data sheet

3RU2126-1GB0



Overload relay 4.5...6.3 A Thermal For motor protection Size S0, Class 10 Contactor mounting 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	SO		
power loss [W] for rated value of the current at AC in hot operating state	6.6 W		
• 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 protective separation			
 in networks with ungrounded star point between auxiliary and auxiliary circuit 	440 V		
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V		
 in networks with ungrounded star point between main and auxiliary circuit 	440 V		
 in networks with grounded star point between main and auxiliary circuit 	440 V		
shock resistance according to IEC 60068-2-27	8g / 11 ms		
reference code according to IEC 81346-2	F		
Substance Prohibitance (Date)	10/01/2009		
SVHC substance name	Lead - 7439-92-1		
Weight	0.185 kg		
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 %		
Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
global warming potential [CO2 eq] total	56.6 kg		
global warming potential [CO2 eq] during manufacturing	1.21 kg		
global warming potential [CO2 eq] during sales	0.047 kg		
global warming potential [CO2 eq] during operation	55.4 kg		
global warming potential [CO2 eq] after end of life	-0.027 kg		
Main circuit			
number of poles for main current circuit	3		

adjustable current response value current of the current- dependent overload release	4.5 6.3 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	6.3 A				
operational current at AC-3e at 400 V rated value	6.3 A				
operating power					
• at AC-3					
— at 400 V rated value	2.2 kW				
— at 500 V rated value	3 kW				
— at 690 V rated value	4 kW				
• at AC-3e					
— at 400 V rated value	2.2 kW				
— at 500 V rated value	3 kW				
— at 690 V rated value					
	4 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	1 A				
• at 690 V	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				
	800071000				
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	6.3 A				
• at 600 V rated value	6.3 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	for mounting on contactors: with a vertical mounting plane +/-135° rotatable & +/- 22.5° tiltable, stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual				
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 	screw-type terminals				

c						
for auxiliary and control circuit			screw-type terminals			
arrangement of electrical connectors for main current circuit			Top and bottom			
type of connectable c	onductor cross-section	s				
 for main contacts 						
— solid or stra			2x (1	. 2.5 mm²), 2x (2.5 ⁻	10 mm²)	
 finely stranded with core end processing 			2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
for AWG cables for main contacts			2x (16 12), 2x (14 8)			
	onductor cross-section	e	27 (10	12), 2x (14 0)		
 for auxiliary cont 		5				
- solid or stranded			27 (0 5	1.5 mm^2 $2x (0.75)$	2.5 mm^2	
			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing for AWG cables for auxiliary contacts 			2x (0.5 1.5 mm ⁻), 2x (0.75 2.5 mm ⁻) 2x (20 16), 2x (18 14)			
	for auxiliary contacts		ZX (20	10), 2X (18 14)		
tightening torque						
	s with screw-type termina		2 2.5 N·m			
,	acts with screw-type term	inals	0.8 1.2 N·m			
design of screwdriver			Diameter 5 6 mm			
size of the screwdrive			Pozidri	v PZ 2		
design of the thread o	of the connection screw					
 for main contacts 	S		M4			
 of the auxiliary a 	nd control contacts		M3			
Safety related data						
	low demand rate accord	ling to SN	50 FIT			
	31920		2 280 a			
MTTF with high dema	inu rate		2 200 8	1		
T1 value						
 for proof test inte 61508 	 for proof test interval or service life according to IEC 61508 		20 a			
Electrical Safety						
protection class IP on the front according to IEC 60529		IP20	IP20			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front				
Display						
display version for swite	ching status		Slide s	witch		
Approvals Certificates						
General Product App	roval					For use in hazard- ous locations
	C C EG-Konf.	UK CA			EHC	IECEx
For use in hazardous	locations	Test Certificate	es		Maritime application	
	Miscellaneous	Special Test Ce	<u>ertific-</u>	Type Test Certific-		A CONTRACTOR
<u>(£x</u>)		ate		ates/Test Report		
ATEX					ABS	BUREAU VERITAS
Maritime application						other
					-	Miscellaneous
ŤŴ	Lloyd's Register			(***)		Miscellaneous
DNV	LRS	PRS		RINA	RMRS	
other	Railway	Environment				



Special Test Certificate



Environmental Confirmations

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=3RU2126-1GB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1GB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1GB0

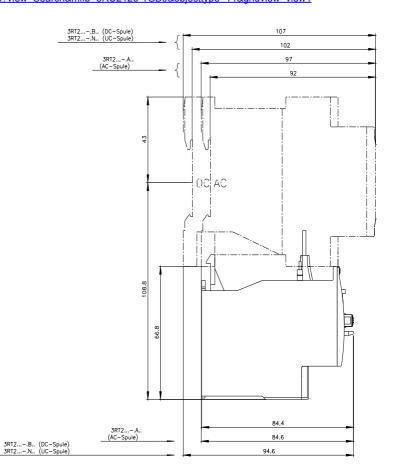
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

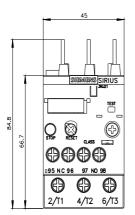
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1GB0&lang=en

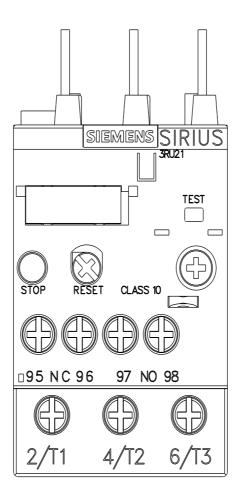
Characteristic: Tripping characteristics, I²t, Let-through current

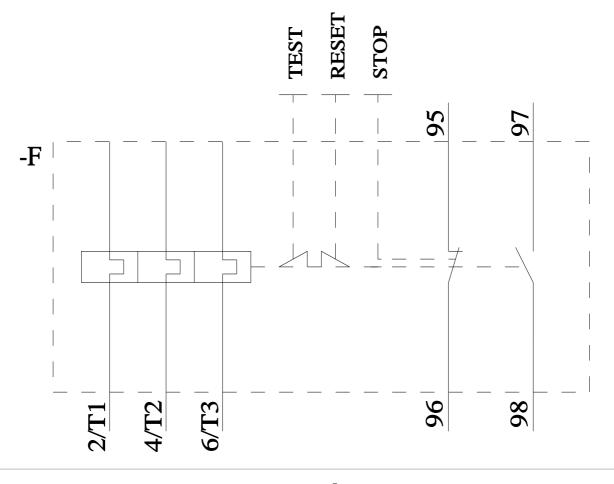
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1GB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1GB0&objecttype=14&gridview=view1









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