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

and both here diverses				
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				
•	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 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			
reference code according to IEC 81346-2	F			
Substance Prohibitance (Date)	10/01/2009			
SVHC substance name	Lead - 7439-92-1			
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	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		
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	fuse gG: 6 A, quick: 10 A		
Installation/ mounting/ dimensions mounting position	any		
Installation/ mounting/ dimensions			
Installation/ mounting/ dimensions mounting position fastening method height	any Contactor mounting 85 mm		
Installation/ mounting/ dimensions mounting position fastening method height width	any Contactor mounting 85 mm 45 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth	any Contactor mounting 85 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals	any Contactor mounting 85 mm 45 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth	any Contactor mounting 85 mm 45 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	any Contactor mounting 85 mm 45 mm 85 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	any Contactor mounting 85 mm 45 mm 85 mm		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	any Contactor mounting 85 mm 45 mm 85 mm No		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	any Contactor mounting 85 mm 45 mm 85 mm No No		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current	any Contactor mounting 85 mm 45 mm 85 mm No No		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit	any Contactor mounting 85 mm 45 mm 85 mm No No		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	any Contactor mounting 85 mm 45 mm 85 mm No No		
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	any Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom		

type of connectable	conductor cross-sections	;				
 for auxiliary cor 	itacts					
— solid or sti	— solid or stranded		2x (0.	5 1.5 mm²), 2x (0.75 .	2.5 mm²)	
- finely stranded with core end processing		2x (0.	5 1.5 mm²), 2x (0.75 .	2.5 mm²)		
 for 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		Pozidriv PZ 2				
design of the thread of the connection screw						
• for main contacts			M4			
 of the auxiliary 	and control contacts		M3			
afety related data						
failure rate [FIT] with low demand rate according to SN 31920			50 FIT			
MTTF with high dem	and rate		2 280	а		
IEC 61508			2 200	~		
T1 value						
			20 a			
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				
touch protection on	the front according to IEC	60529	finger-safe, for vertical contact from the front			
isplay						
display version for swi	tching status		Slide	switch		
pprovals Certificates						
General Product Ap	proval					
CE EG-Konf.	UK CA			<u>Confirmation</u>	(UL)	EHC
For use in hazardou	s locations	Test Certificate	s		Marine / Shipping	
IECEx	K ATEX	<u>Special Test Ce</u> <u>ate</u>	<u>rtific-</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS
Marine / Shipping						other
	Lloyds Register uis	PRS		RINA	RMRS	<u>Miscellaneous</u>
other	Environment					
<u>Confirmation</u>	Environmental Con- firmations					

Cax online generator

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4/T2 6/T3

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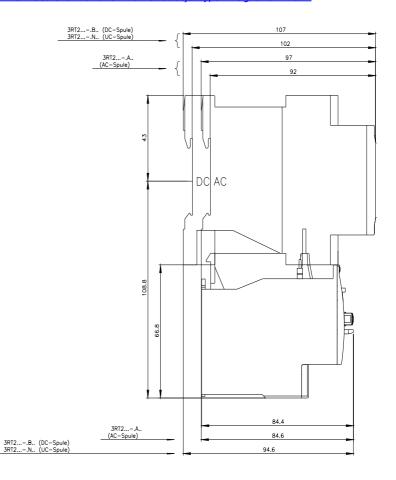
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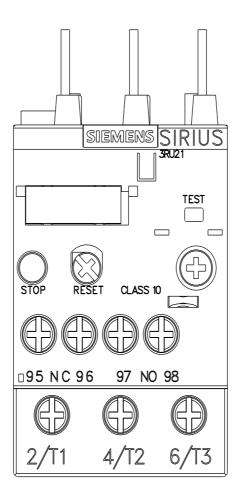
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1GB0&lang=en

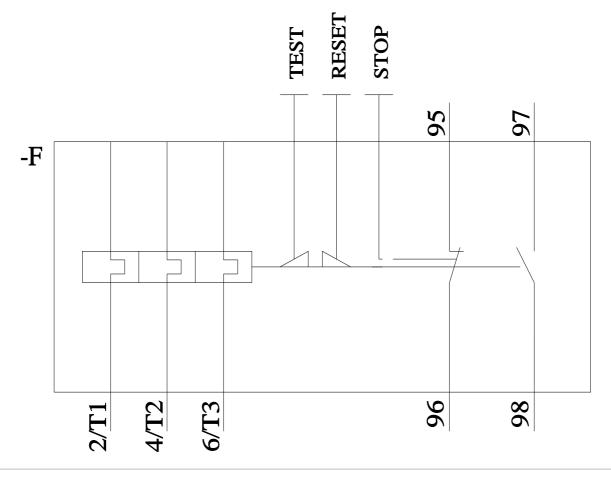
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1GB0/char Further characteristics (e.g. electrical endurance, switching frequency)

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