## SIEMENS

## Data sheet

## 3RU2126-1HB0



Overload relay 5.5...8.0 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 brand name product designation	thermal overload relay
product designation	3RU2
General technical data	51/02
size of overload relay	S0 S0
size of contactor can be combined company-specific	
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 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 acc. 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 acc. to IEC 81346-2	F
Substance Prohibitance (Date)	01.10.2009
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
<ul> <li>during transport</li> </ul>	-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	5.5 8 A
operating voltage	
<ul> <li>rated value</li> </ul>	690 V
• at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz

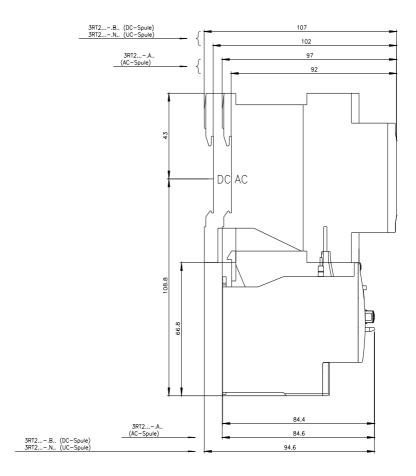
oporational current rated value	8 A
operational current rated value	0 A
operating power at AC-3	2 1/1/1
at 400 V rated value	3 kW
at 500 V rated value	4 kW
at 690 V rated value	5.5 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
note	for 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	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	
<ul> <li>at 480 V rated value</li> </ul>	8 A
<ul> <li>at 600 V rated value</li> </ul>	8 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	any
	any Contactor mounting
mounting position fastening method height	Contactor mounting 85 mm
mounting position fastening method height width	Contactor mounting 85 mm 45 mm
mounting position fastening method height width depth	Contactor mounting 85 mm
mounting position fastening method height width	Contactor mounting 85 mm 45 mm
mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary	Contactor mounting 85 mm 45 mm
mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit	Contactor mounting 85 mm 45 mm 85 mm
mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection	Contactor mounting 85 mm 45 mm 85 mm No
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	Contactor mounting 85 mm 45 mm 85 mm No No
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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	Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom
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         — solid or stranded	Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
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	Contactor mounting         85 mm         45 mm         85 mm         No         screw-type terminals         screw-type terminals         Top and bottom         2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
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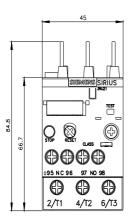
<ul> <li>at AWG cables for auxiliary contact</li> </ul>	cts	2x (20 16), 2x (18 14	)	
tightening torque			/	
• for main contacts with screw-type	terminals	2 2.5 N·m		
<ul> <li>for auxiliary contacts with screw-ty</li> </ul>		0.8 1.2 N·m		
design of screwdriver shaft		Diameter 5 6 mm		
size of the screwdriver tip		Pozidriv PZ 2		
design of the thread of the connection	n screw			
<ul> <li>for main contacts</li> </ul>		M4		
<ul> <li>of the auxiliary and control contact</li> </ul>	ts	M3		
Safety related data				
failure rate [FIT] with low demand rate a	cc. to SN 31920	50 FIT		
MTTF with high demand rate		2 280 y		
T1 value for proof test interval or service IEC 61508	vice life acc. to	20 y		
protection class IP on the front acc. to	o IEC 60529	IP20		
touch protection on the front acc. to I	EC 60529	finger-safe, for vertical cor	ntact from the front	
Display				
display version for switching status		Slide switch		
Certificates/ approvals				
General Product Approval			For use in hazardo	ous locations
(SF) (CC)	ա	EAC	Æx>	IECE×
CCC Conformity	UL Tost Cartifica	EAC	ATEX Marine / Shipping	IECEx
Declaration of Conformity	Test Certifica	tes	ATEX Marine / Shipping	IECEx
UK Declaration of Conformity         UK Declaration of Conformity         Ece-Konf,	Test Certifica Special Test Certifica ate			IECEX
UK Declaration of Conformity	Special Test Ce	ertific- Type Test Certific-		IECEX
UK Declaration of Conformity EG-Konf.	Special Test Ce	ertific- Type Test Certific-		B U R E A U VERITAS
UK Declaration of Conformity EG-Konf, Marine / Shipping	Special Test Ce	ertific- Type Test Certific-	ABS	BUREAU VERITAS

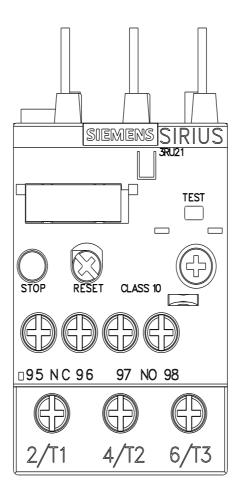
Further information

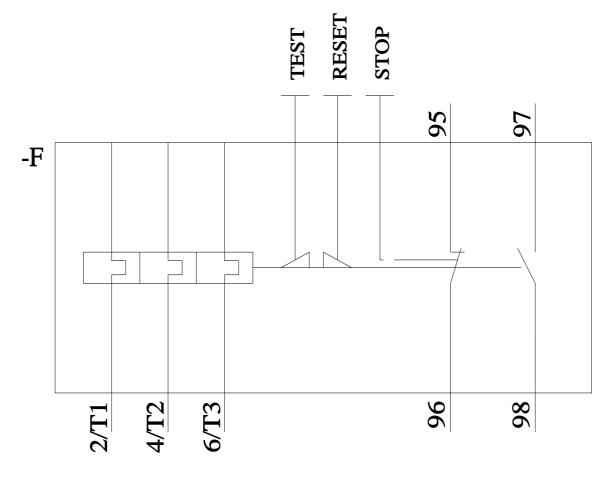
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## Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1HB0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1HB0&objecttype=14&gridview=view1









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