## SIEMENS

## Data sheet

## 3RU2126-1CB0



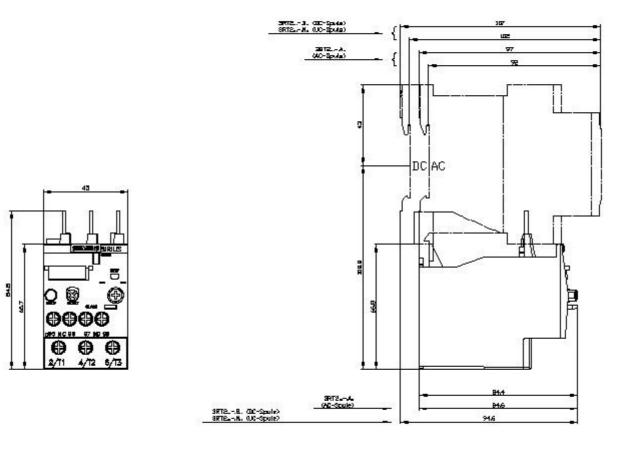
Overload relay 1.8...2.5 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

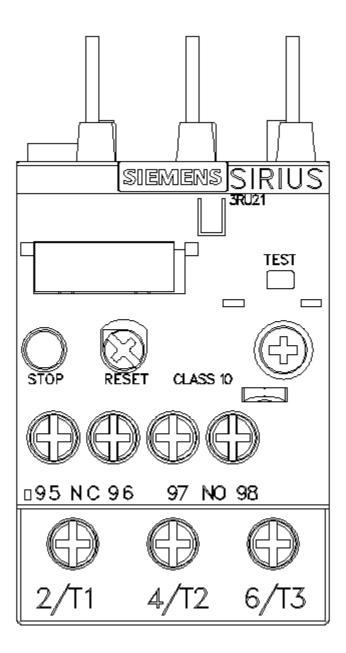
product brand name	SIRIUS		
product designation	thermal overload relay		
product type designation	3RU2		
General technical data			
size of overload relay	S0		
size of contactor can be combined company-specific	S0		
power loss [W] for rated value of the current at AC in hot operating state	5.7 W		
per pole	1.9 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 00:00:00		
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		
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	1.8 2.5 A		
<ul> <li>operating voltage</li> <li>rated value</li> </ul>	690 V		

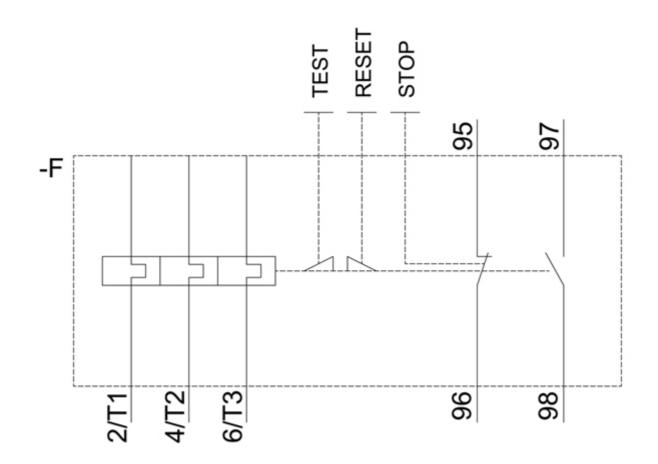
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V			
operating frequency rated value	50 60 Hz			
operational current rated value	2.5 A			
operating power at AC-3				
• at 400 V rated value	0.75 kW			
at 500 V rated value	1.1 kW			
at 690 V rated value	1.5 kW			
Auxiliary circuit				
design of the 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				
trin class	CLASS 10			
trip class design of the overload release	CLASS 10 thermal			
design of the overload release	CLASS 10 thermal			
design of the overload release UL/CSA ratings				
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal			
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 2.5 A			
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	thermal			
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	thermal 2.5 A			
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	thermal 2.5 A			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch	thermal 2.5 A 2.5 A			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions	thermal 2.5 A 2.5 A			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	thermal 2.5 A 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm			
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design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product function removable terminal for auxiliary and control circuit	thermal 2.5 A 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm			
design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product function removable terminal for auxiliary and control circuit         type of electrical connection         • for main current circuit	thermal 2.5 A 2.5 A 2.5 A 2.5 A			
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design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         Short-circuit protection         design of the fuse link         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product function 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	thermal 2.5 A 2.5 A 2.5 A 2.5 A			
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type of connectable c	onductor cross-sec	ctions					
<ul> <li>for auxiliary containing</li> </ul>	acts						
<ul> <li>— solid or strar</li> </ul>	nded		· · · · · · · · · · · · · · · · · · ·	0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
	ed with core end pro	ocessing		2x (0.75 2.5 mm²)			
at AWG cables for auxiliary contacts			2x (20 16), 2x (18 14)				
tightening torque							
	<ul> <li>for main contacts with screw-type terminals</li> </ul>			2 2.5 N·m			
	acts with screw-type	terminals	0.8 1.2 N·m	0.8 1.2 N·m			
design of screwdriver			Diameter 5 6 mm				
size of the screwdriver tip			Pozidriv PZ 2				
design of the thread of the connection screw							
<ul> <li>for main contacts</li> </ul>			M4				
	<ul> <li>of the auxiliary and control contacts</li> </ul>			M3			
Safety related data							
failure rate [FIT] with low	w demand rate acc.	to SN 31920	50 FIT				
MTTF with high dema	nd rate		2 280 y				
T1 value for proof test interval or service life acc. to			20 y				
IEC 61508	the front and to IF	C 60520	IP20				
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front					
Display			inger sure, for vert		t i i i i i i i i i i i i i i i i i i i		
display version for switching status			Slide switch				
Certificates/ approvals	5						
General Product App	roval			For use in h	azardous locations		
	(u) (u)		ĽĦ	ATEX	IECEX		
Declaration of Confor	rmity	Test Certifica	tes	Marine / Shi	oping		
Miscellaneous	(6	<u>Special Tes</u> Certific-ate		st /Test			
	EG-Konf.		Report	Telefort I	BUREAU VERITAS		
Marine / Shipping					other		
Lloyds Register us	PRS	RINA	RMRS		<u>Confirmation</u>		
Railway							
Vibration and Shock							

## Further information







last modified:

12/15/2020 🖸