SIEMENS

Data sheet

3RU2126-4NB1



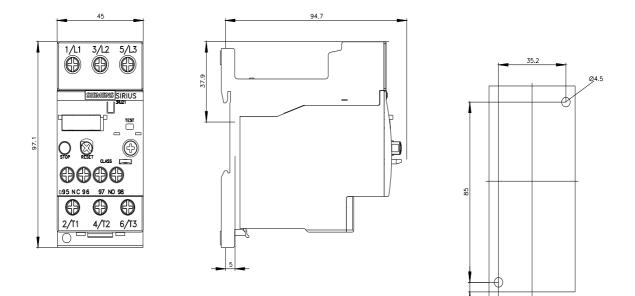
Overload relay 23...28 A Thermal For motor protection Size S0, Class 10 Standalone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

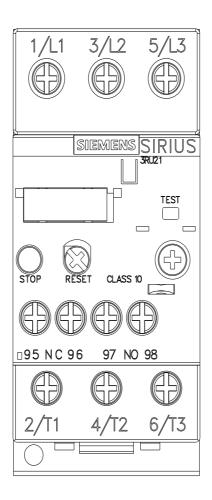
product brand name	SIRIUS			
product designation	thermal overload relay			
product type designation	3RU2			
General technical data				
size of overload relay	SO			
size of contactor can be combined company-specific	SO			
power loss [W] for rated value of the current at AC in hot operating state	9.6 W			
• per pole	3.2 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			
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	23 28 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	28 A			
operational current at AC-3e at 400 V rated value	28 A			
operating power				

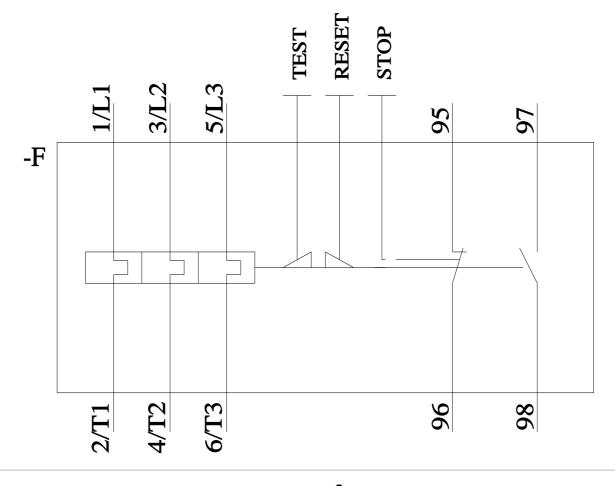
• at AC-3	45 1444			
— at 400 V rated value	15 kW			
— at 500 V rated value	18.5 kW			
— at 690 V rated value	22 kW			
• at AC-3e				
— at 400 V rated value	15 kW			
— at 500 V rated value	18.5 kW			
— at 690 V rated value	22 kW			
Auxiliary circuit				
design of the auxiliary switch	integrated			
number 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	28 A			
• at 600 V rated value	28 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			
	any stand-alone installation			
mounting position fastening method height	any stand-alone installation 97 mm			
mounting position fastening method height width	any stand-alone installation 97 mm 45 mm			
mounting position fastening method height width depth	any stand-alone installation 97 mm			
mounting position fastening method height width depth Connections/ Terminals	any stand-alone installation 97 mm 45 mm 95 mm			
mounting position fastening method height width depth	any stand-alone installation 97 mm 45 mm			
mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	any stand-alone installation 97 mm 45 mm 95 mm			
mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	any stand-alone installation 97 mm 45 mm 95 mm			
mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	any stand-alone installation 97 mm 45 mm 95 mm			
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 stand-alone installation 97 mm 45 mm 95 mm No 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 • for auxiliary and control circuit arrangement of electrical connectors for main current	any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals			
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 stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals			
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 stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals			
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 stand-alone installation 97 mm 45 mm 95 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	any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals Top and bottom 1x (1 2,5 mm ²), 1x (2,5 10 mm ²)			
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 — finely stranded with core end processing	any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals Top and bottom 1x (1 2,5 mm²), 1x (2,5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
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 — finely stranded with core end processing • for AWG cables for main contacts	any stand-alone installation 97 mm 45 mm 95 mm No No Screw-type terminals screw-type terminals Top and bottom $1x (1 2,5 mm^2), 1x (2,5 10 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$			

for AWG cables tightening torque for main contact for auxiliary cont design of screwdrive size of the screwdrive design of the thread o for main contact • for main contact • of the auxiliary a Safety related data failure rate [FIT] with lo MTTF with high dema	ded with core end process for auxiliary contacts s with screw-type terminal acts with screw-type term r shaft er tip of the connection screw s nd control contacts w demand rate according	s inals to SN 31920		1		
•	the front according to I the front according to I		IP20	r vertical contact	from the front	
Display		00029	inger-sale, 10	r vertical contact		
display version for swit	ching status		Slide switch			
Certificates/ approvals						
General Product App	roval				For use in hazardous	locations
<u>Confirmation</u>		(ال س		EAC	IECEx	KEX ATEX
Declaration of Confo	rmity	Test Certificate	es		Marine / Shipping	
UK CA	CE EG-Konf.	<u>Special Test Ce</u> <u>ate</u>		<u>Test Certific-</u> /Test Report	ABS	BUREAU VERITAS
Marine / Shipping						other
	Lloyd's Register Lirs	PRS		RINA	KMRS RMRS	<u>Confirmation</u>
other	Railway					
UDE VDE	<u>Vibration and Shock</u>					
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RU2126-4NB1 Cax online generator Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4NB1						

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4NB1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4NB1&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4NB1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4NB1&objecttype=14&gridview=view1







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