SIEMENS

Data sheet

3RU2126-4NB0



Overload relay 23...28 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	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 safe isolation 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 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	
 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-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz

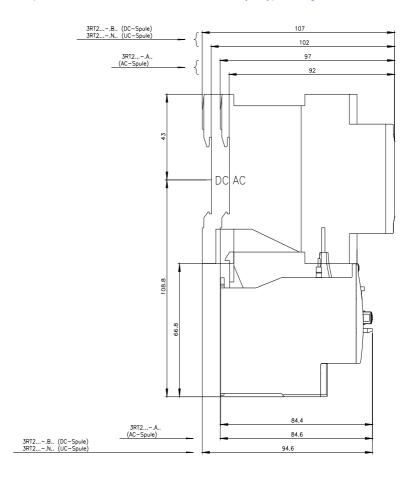
operational current rated value	28 A
operating power at AC-3	
• at 400 V rated value	15 kW
• at 500 V rated value	18.5 kW
• at 690 V rated value	22 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number 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	1A
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	aremai
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	28 A
at 600 V rated value	28 A
	20 A
Short-circuit protection	
design of the fuse link	for a Co C A multiple 40 A
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
	201/
mounting position	any Contactor mounting
fastening method	Contactor mounting 85 mm
height	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
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	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
at AWG cables for main contacts	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— 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 mm ²), 2x (0.75 2.5 mm ²)

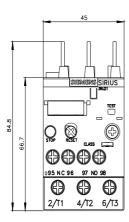
 at AWG cables for auxiliary cor 	ntacts	2x (20 16), 2x (18 14))	
tightening torque				
 for main contacts with screw-ty 	pe terminals	2 2.5 N·m		
 for auxiliary contacts with screw 	v-type terminals	0.8 1.2 N·m		
design of screwdriver shaft		Diameter 5 6 mm		
size of the screwdriver tip		Pozidriv PZ 2		
design of the thread of the connec	tion screw			
for main contacts		M4		
 of the auxiliary and control contacts 		M3		
Safety related data				
failure rate [FIT] with low demand rate acc. to SN 31920		50 FIT		
MTTF with high demand rate		2 280 y		
T1 value for proof test interval or s IEC 61508	ervice life acc. to	20 у		
protection class IP on the front acc	c. to IEC 60529	IP20		
touch protection on the front acc. t	to IEC 60529	finger-safe, for vertical con	tact from the front	
Display				
display version for switching status		Slide switch		
Certificates/ approvals				
General Product Approval			For use in hazardo	ous locations
) (ዚ)	EHE	⟨£x ⟩	IECEx
		EHC	KEx ATEX	IECEx
Declaration of Conformity) UL Test Certifica	EHC	Marine / Shipping	IECEx
UK Declaration of Conformity UK Declaration of Conformity Conformity	Test Certifica Special Test Certifica		Marine / Shipping	IECEX 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

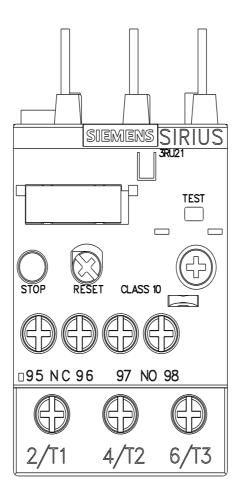
Further information

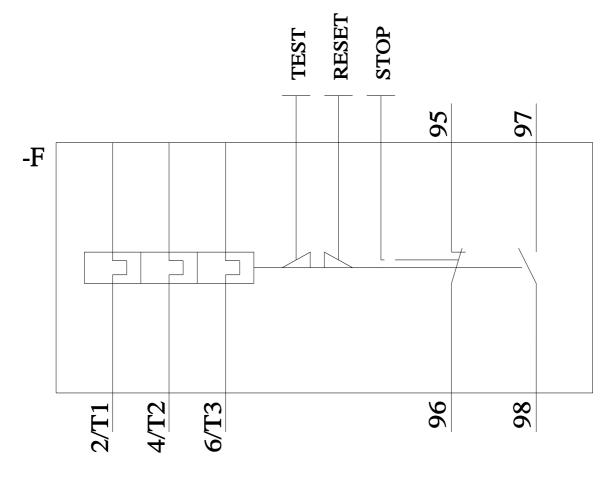
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2126-4NB0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4NB0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4NB0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4NB0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4NB0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4NB0&objecttype=14&gridview=view1









last modified:

12/1/2021 🖸