SIEMENS

Data sheet

3RU2126-1DB0



Overload relay 2.2...3.2 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	
 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	2.2 3.2 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	3.2 A
operational current at AC-3e at 400 V rated value	3.2 A
operating power	
• at AC-3	
- at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
• at AC-3e	Z.Z NVV
- at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
	Z.Z KVV
Auxiliary circuit	internated
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1 for contactor disconnection
note	for contactor disconnection
number of NO contacts for auxiliary contacts	
note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	2.4
• 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	
• at 480 V rated value	3.2 A
 at 600 V rated value 	3.2 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	85 mm
	45
width	45 mm
depth	45 mm 85 mm
depth Connections/ Terminals product component removable terminal for auxiliary	
depth Connections/ Terminals	85 mm
depth Connections/ Terminals product component removable terminal for auxiliary	85 mm
depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	85 mm
depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	85 mm No
depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	85 mm No screw-type terminals
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	85 mm No screw-type terminals screw-type terminals
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	85 mm No screw-type terminals screw-type terminals
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	85 mm No screw-type terminals screw-type terminals

 finely stranded with core end processing at AWG cables for main contacts 		•	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8)			
type of connectable conductor cross-sections			X (10 12), 2X (14 0)			
		15				
 for auxiliary contacts — solid or stranded 				0.5		
			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 finely stranded with core end processing at AWC applies for suviliant contacts 		•	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
at AWG cables for auxiliary contacts			x (20 16), 2x (18 14)			
tightening torque						
for main contacts with screw-type terminals			2.5 N·m			
 for auxiliary contacts with screw-type terminals 		ninals 0	0.8 1.2 N·m			
design of screwdriver shaft		D	Diameter 5 6 mm			
size of the screwdriver tip		Р	Pozidriv PZ 2			
design of the thread of the connection screw						
for main contacts			14			
 of the auxiliary 	and control contacts	N	13			
Safety related data						
	low demand rate according	a to SN 5	0 FIT			
31920		y to 314 - 3	UTII			
MTTF with high dem	nand rate	2	280 y			
	t interval or service life acc		0 y			
IEC 61508			>20			
60529	on the front according to		-20			
	the front according to IE	C 60529 fi	nger-safe, for vertical conta	ct from the front		
Display						
	N 1 2 4 4					
display version for sw	-	5	lide switch			
Certificates/ approval	IS					
General Product Ar	oproval				For use in hazard-	
General Product Ap	oproval				For use in hazard- ous locations	
General Product Ap			-			
General Product Ap	oproval Confirmation		Ē	rnr		
General Product Ap			(l)	FAC		
General Product Ap		3	<u>ل</u>	EAC		
General Product Ap		3	U	EAC		
General Product Ap		(CCC)	U	EAC		
General Product Ap	Confirmation		UL UL	EAC	ous locations	
SP CM		ccc	UL Test Certificates	EAC		
For use in hazard-	Confirmation Declaration of Conform	ccc		EAC	ous locations	
For use in hazard-	Confirmation Declaration of Conform	ccc nity	Special Test Certific-	Type Test Certific-	ous locations	
For use in hazard-	Confirmation	ccc nity CE		Type Test Certific- ates/Test Report	ous locations	
For use in hazard-	Confirmation Declaration of Conform	ccc nity	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	CE	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	CE	Special Test Certific-		ous locations	
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For use in hazard- ous locations	Confirmation Declaration of Conform	CE	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	CE	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	EG-Konf.	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	CE	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	EG-Konf.	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	EG-Konf.	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	EG-Konf.	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform UCA Confirmation	EG-Konf.	Special Test Certific-		ous locations	
For use in hazard- ous locations	Confirmation Declaration of Conform	EG-Konf.	Special Test Certific-		ous locations	

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=3RU2126-1DB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1DB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1DB0

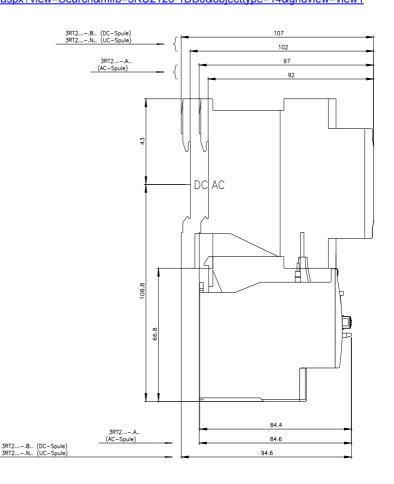
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1DB0&lang=en</u>

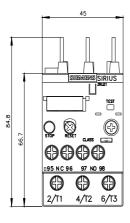
Characteristic: Tripping characteristics, I²t, Let-through current

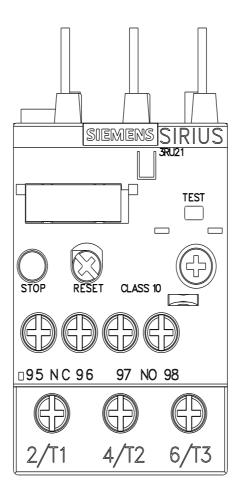
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1DB0/char

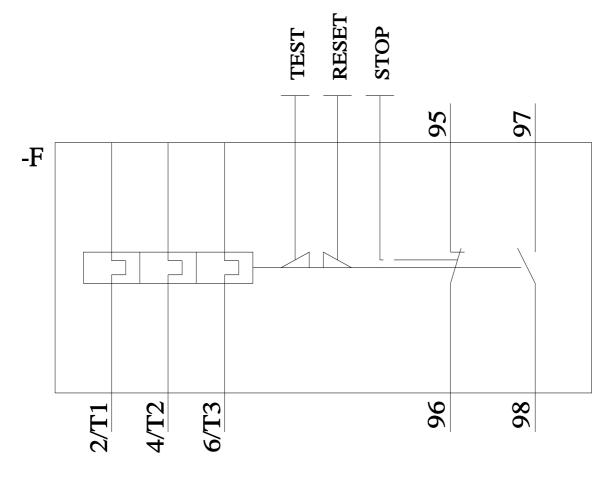
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1DB0&objecttype=14&gridview=view1









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