SIEMENS

Data sheet

3RU2126-4DB1



Overload relay 20...25 A Thermal For motor protection Size S0, Class 10 Stand-alone 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	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	8.1 W
• per pole	2.7 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	20 25 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	25 A
operational current at AC-3e at 400 V rated value	25 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	11 kW
— at 500 V rated value	15 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 for any set of the s
• 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
_	trenna
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	25 A
• at 600 V rated value	25 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	stand-alone installation
height	97 mm
width	45 mm
depth	95 mm
Connections/ Terminals	
	No
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 circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
- solid or stranded	1x (1 2,5 mm²), 1x (2,5 10 mm²)
	$(1 \dots 2, 0 \dots 1), (1 \dots 2, 0 \dots 1) \dots 10 \dots 1)$

— finely stra	nded with core end proces	ssing	2x (1 2.5 mm²), 2x (2.5	6 mm²), 1x 10 mm²		
type of connectable conductor cross-sections		2x (16 12), 2x (14 8)				
type of connectable	conductor cross-sectio	ons				
 for auxiliary con 	ntacts					
— solid or st	randed		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 		ssing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables for auxiliary contacts 		2x (20 16), 2x (18 14	.)			
tightening torque						
 for main contacts with screw-type terminals 		2 2.5 N·m				
 for auxiliary contacts with screw-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	d of the connection screv	w				
for main contacts			M4			
 of the auxiliary 	and control contacts		M3			
Safety related data						
failure rate [FIT] with 31920	low demand rate accordin	ng to SN	50 FIT			
MTTF with high den	nand rate		2 280 y			
T1 value for proof tes IEC 61508	st interval or service life ac	ccording to	20 у			
protection class IP 60529	on the front according to	o IEC	IP20			
touch protection on	the front according to I	EC 60529	finger-safe, for vertical co	ntact from the front		
Display						
display version for sv	vitching status		Slide switch			
Certificates/ approva	-					
	ls	_	_	_	For use in hazard-	
Certificates/ approva General Product Ap	ls	_			For use in hazard- ous locations	
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General Product A	ls		m UL UL Test Certificates	EAC		
General Product A	ls pproval			EAC	ous locations	
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General Product A	ls pproval	rmity	Test Certificates	EAC : <u>Type Test Certific-</u> ates/Test Report	ous locations	
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General Product A	ls pproval		Test Certificates	ERIC :- Type Test Certific- ates/Test Report	ous locations	
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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=3RU2126-4DB1 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4DB1

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

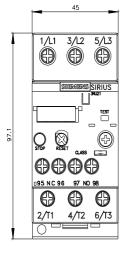
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4DB1

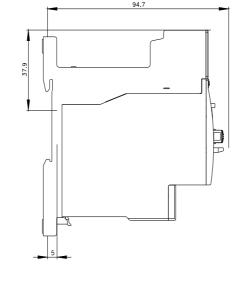
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4DB1&lang=en

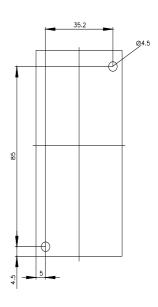
Characteristic: Tripping characteristics, I²t, Let-through current

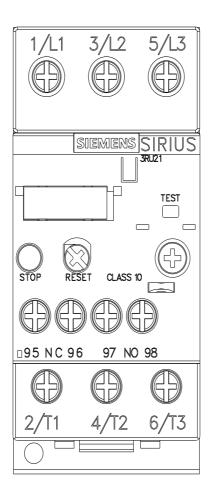
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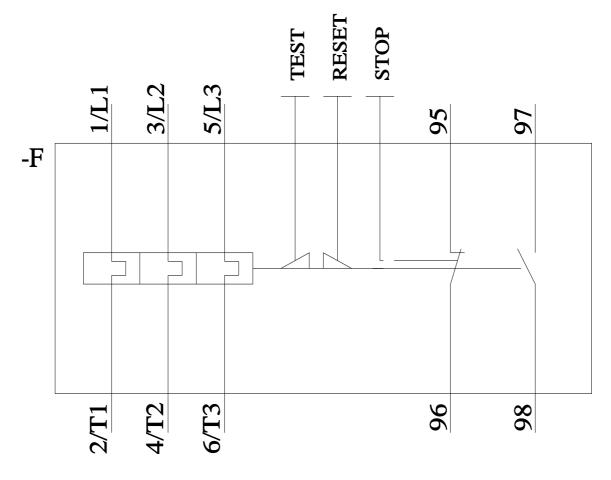
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4DB1&objecttype=14&gridview=view1











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