SIEMENS

Data sheet

3RU2126-4AB0



Overload relay 11...16 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name product designation	SIRIUS
product designation	
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 ungrounded star point between auxiliary and auxiliary circuit 	440 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V
 in networks with ungrounded star point between main and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.18 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	56.6 kg
global warming potential [CO2 eq] during manufacturing	1.21 kg
global warming potential [CO2 eq] during sales	0.047 kg
global warming potential [CO2 eq] during operation	55.4 kg
global warming potential [CO2 eq] after end of life	-0.027 kg
Main circuit	
number of poles for main current circuit	3

adjustable current response value current of the current- dependent overload release	11 16 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	16 A
operational current at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 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 number of CO contacts for auxiliany contacts	for message "Tripped" 0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	0.A
• at 24 V	3 A 3 A
• at 110 V	
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1A
• 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
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	16 A
• at 600 V rated value	16 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
nstallation/ mounting/ dimensions	
mounting position	for mounting on contactors: with a vertical mounting plane +/-135° rotatable &
	+/- 22.5° tiltable, stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual
fastening method	Contactor mounting
height	85 mm
width	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 	I control circuit		screw-	screw-type terminals		
arrangement of electrical connectors for main current circuit			Top and bottom			
	conductor cross-section	5				
 for main contact 			0 (1		2)	
— solid or stranded		2x (1 2.5 mm ²), 2x (2.5 10 mm ²)				
— finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²				
	for main contacts		2x (16	12), 2x (14 8)		
	conductor cross-section	S				
 for auxiliary con 	tacts					
— 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 mm²), 2x (0.75 2.5 mm²)				
 for AWG cables for auxiliary contacts 			2x (20 16), 2x (18 14)			
tightening torque						
 for main contact 	ts with screw-type termina	ls	2 2.	5 N·m		
 for auxiliary con 	tacts with screw-type term	inals	0.8 *	1.2 N·m		
design of screwdrive	er shaft		Diameter 5 6 mm			
size of the screwdriv	er tip		Pozidri	v PZ 2		
design of the thread	of the connection screw					
 for main contact 	ts		M4			
 of the auxiliary a 	and control contacts		M3			
Safety related data						
	low demand rate accord	ling to SN	50 FIT			
MTTF with high dema	and rate		2 280 a	a		
IEC 61508			1 200 0	-		
T1 value						
for proof test interval or service life according to IEC 61508		20 a				
Electrical Safety						
	n the front according to	IEC 60529	IP20			
-	the front according to IE			safe, for vertical contact	from the front	
Display		0 00323	iiiigei-			
	tabing atatus		Slide e	witch		
display version for swi Approvals Certificates	-		Slide s	witch		
Approvais Certificates						
General Product App	proval					For use in hazard- ous locations
	CE EG-Konf.	UK CA		U	EAC	ATEX ATEX
For use in hazardous	s locations	Test Certificate	es		Maritime application	
	<u>Miscellaneous</u>	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	Type Test Certific- ates/Test Report	ABS	BUREAU
						VERITAS
Maritime application						other
	Llovd's Register uts	PRS		RINA	RMRS	<u>Miscellaneous</u>
other	Railway	Environment				



Special Test Certificate



Environmental Confirmations

Further information

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=3RU2126-4AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4AB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4AB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

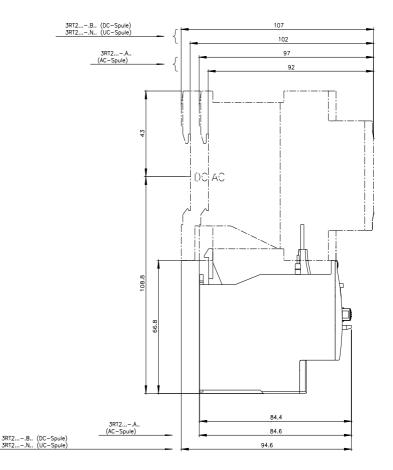
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4AB0&lang=en

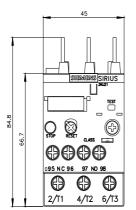
Characteristic: Tripping characteristics, I²t, Let-through current

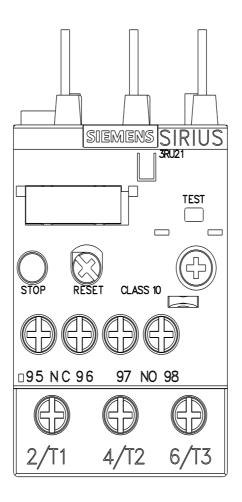
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4AB0/char

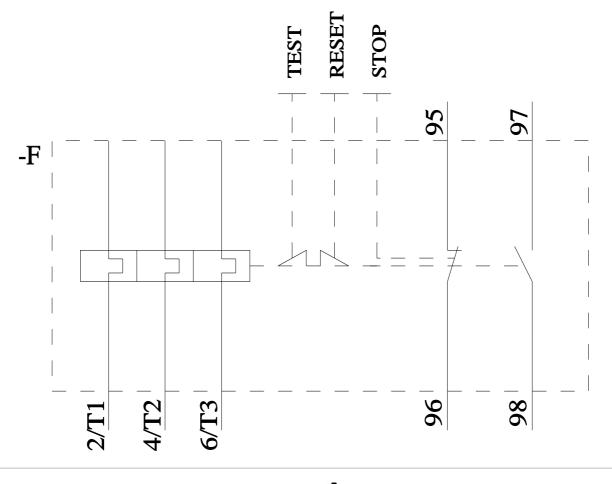
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4AB0&objecttype=14&gridview=view1









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