# SIEMENS

#### Data sheet

### 3RU2126-1EB0



Overload relay 2.8...4.0 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	SO
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 protective separation in networks with grounded star point	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	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	2.8 4 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	4 A
operational current at AC-3e at 400 V rated value	4 A
operating power	

• at AC-3			
— at 400 V rated value	1.5 kW		
— at 500 V rated value	2.2 kW		
— at 690 V rated value	3 kW		
• at AC-3e			
— at 400 V rated value	1.5 kW		
— at 500 V rated value	2.2 kW		
— at 690 V rated value	3 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			
Protective and monitoring functions trip class	CLASS 10		
	CLASS 10 thermal		
trip class design of the overload release			
trip class design of the overload release UL/CSA ratings			
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal		
trip class design of the overload release UL/CSA ratings			
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	thermal 4 A		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	thermal 4 A		
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trip class         design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>short-circuit protection</li> <li>design of the fuse link                 <ul></ul></li></ul>	thermal 4 A 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No		
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trip class         design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> <li>Short-circuit protection         <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> <li>Connections/ Terminals         <ul> <li>product component removable terminal for auxiliary and control circuit</li> <li>type of electrical connection                 <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> </li> </ul></li>	thermal 4 A 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No		
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trip class         design of the overload release         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> <li>Short-circuit protection         <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> <li>Connections/ Terminals         <ul> <li>product component removable terminal for auxiliary and control circuit</li> <li>type of electrical connection             <ul> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>for main contacts                  <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>f</li></ul></li></ul></li></ul></li>	thermal 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A		
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— solid or stranded     — finely stranded with core end proc	essing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
• for AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)			
tightening torque		0.051			
<ul> <li>for main contacts with screw-type termination</li> </ul>			2 2.5 N·m		
for auxiliary contacts with screw-type te	erminals	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 connection scre					
<ul> <li>for main contacts</li> </ul>		M4			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3			
Safety related data					
failure rate [FIT] with low demand rate accord	ing to SN 31920	50 FIT			
MTTF with high demand rate		2 280 a			
T1 value for proof test interval or service life a 61508	ccording to IEC	20 a			
protection class IP on the front according	to IEC 60529	IP20			
touch protection on the front according to	IEC 60529	finger-safe, for vertical contact	t from the front		
Display					
display version for switching status		Slide switch			
Certificates/ approvals					
General Product Approval			For use in hazardous	locations	
Confirmation ccc	(UL)	EHC	ATEX A	IECEx	
Declaration of Conformity	Test Certificat	tes	Marine / Shipping		
CE UK EG-Konf. CA	<u>Special Test C</u> <u>ate</u>	ertific: <u>Type Test Certific-</u> <u>ates/Test Report</u>	ABS	BUREAU VERITAS	
Marine / Shipping				other	
	PRS	RINA		<u>Confirmation</u>	
other Railway					
Vibration and Shoc	Ł				
VDE					
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)	<b>.</b>				
https://mall.industry.siemens.com/mall/en/en/	Catalog/product?mlfb	<u>=3RU2126-1EB0</u>			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1EB0					

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

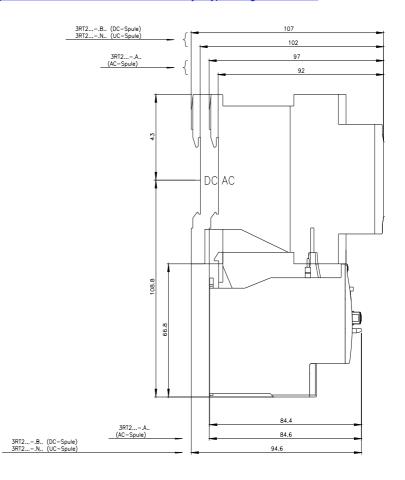
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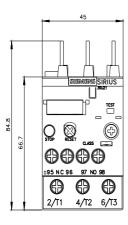
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

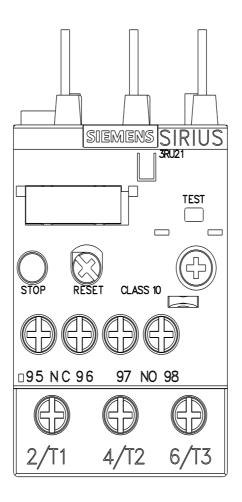
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2126-1EB0&lang=en

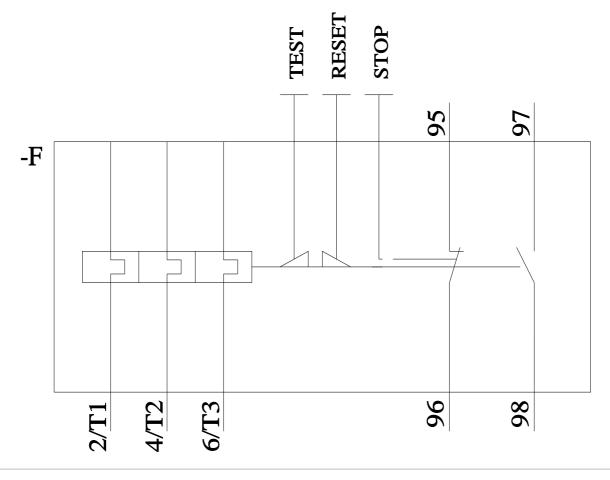
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1EB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1EB0&objecttype=14&gridview=view1









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