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	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 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	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	7.5 1/1/1
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value● at AC-3e	11 kW
	7.5 kW
— at 400 V rated value— at 500 V rated value	7.5 kW
— at 690 V rated value	1.5 kW
	11 KVV
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
 note number of NO contacts for auxiliary contacts 	for contactor disconnection 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	
trip class	CLASS 10
	CLASS 10 thermal
trip class	
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 full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	thermal 16 A
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 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	thermal 16 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 design of the fuse link	thermal 16 A 16 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 design of the fuse link • for short-circuit protection of the auxiliary switch	thermal 16 A 16 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 design of the fuse link • for short-circuit protection of the auxiliary switch required	thermal 16 A 16 A
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm
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 design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 S fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 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	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 16 A 16 A 16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No screw-type terminals screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²

- solid or stranded

- finely stranded with core end processing

• at AWG cables for auxiliary contacts

tightening torque

• for main contacts with screw-type terminals

• for auxiliary contacts with screw-type terminals

design of screwdriver shaft size of the screwdriver tip

design of the thread of the connection screw

· for main contacts

• of the auxiliary and control contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

2 ... 2.5 N·m 0.8 ... 1.2 N·m

Diameter 5 ... 6 mm

Pozidriv PZ 2

M4 M3

Safety related data

failure rate [FIT] with low demand rate according to SN 31920

MTTF with high demand rate

T1 value for proof test interval or service life according to

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

50 FIT

2 280 a

20 a

IP20

finger-safe, for vertical contact from the front

display version for switching status

Slide switch

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation

Vibration and Shock

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)

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,...)

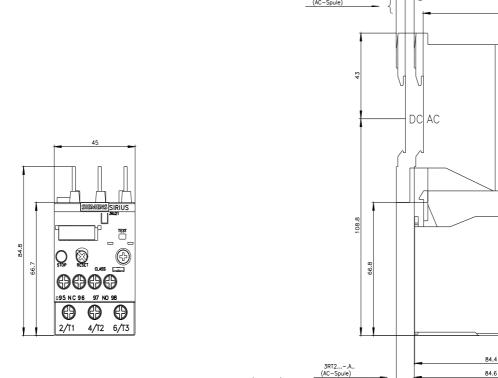
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4AB0

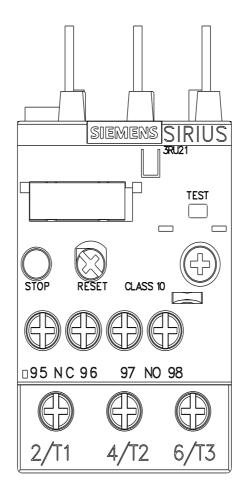
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4AB0&lang=en

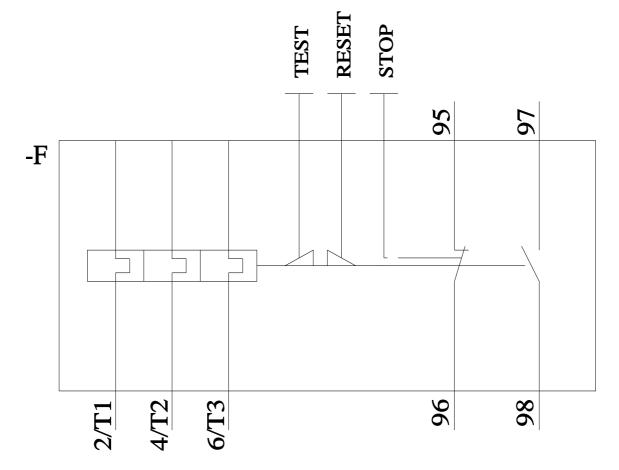
Characteristic: Tripping characteristics, I2t, Let-through current

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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