SIEMENS

Data sheet 3RU2126-4EC1



Overload relay 27...32 A Thermal For motor protection Size S0, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal 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	9.6 W
• per pole	3.2 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	27 32 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	32 A
operational current at AC-3e at 400 V rated value	32 A

anarating navor	
operating power	
• at AC-3	45 k/M
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 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
	2 A
• at 230 V	
• 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
trip class design of the overload release	CLASS 10 thermal
design of the overload release	
design of the overload release UL/CSA ratings	
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 32 A
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
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 32 A
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	32 A 32 A
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 32 A
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	32 A 32 A
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	32 A 32 A
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	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any
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	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation
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	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm
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 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm
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	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm
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 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm
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 depth	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm
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 depth Connections/ Terminals product component removable terminal for auxiliary	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm
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 depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No
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 depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals
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 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	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals spring-loaded terminals
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 depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals
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 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	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals spring-loaded terminals
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 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 for main	thermal 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals spring-loaded terminals Top and bottom
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 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 for main contacts • solid or stranded	thermal 32 A 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No No spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²)
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 32 A 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²) 1x (1 6 mm²)
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 32 A 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No No spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²)
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal 32 A 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 114 mm 45 mm 95 mm No spring-loaded terminals spring-loaded terminals Top and bottom 1x (1 10 mm²) 1x (1 6 mm²)

- solid or stranded

- finely stranded with core end processing

- finely stranded without core end processing

• at AWG cables for auxiliary contacts

design of screwdriver shaft

2x (0.5 ... 2.5 mm²)

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

2x (0.5 ... 1.5 mm²) 2x (20 ... 14)

Diameter 3 mm 3.0 x 0.5 mm

size of the screwdriver tip

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

IEC 61508

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 Certific-

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation

Vibration and Shock

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2126-4EC1}$

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RU2126-4EC1}$

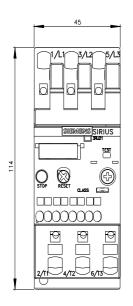
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

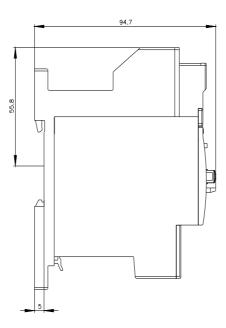
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4EC1

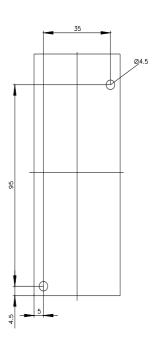
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

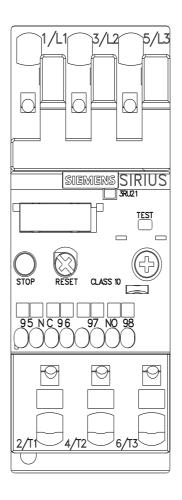
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4EC1/char

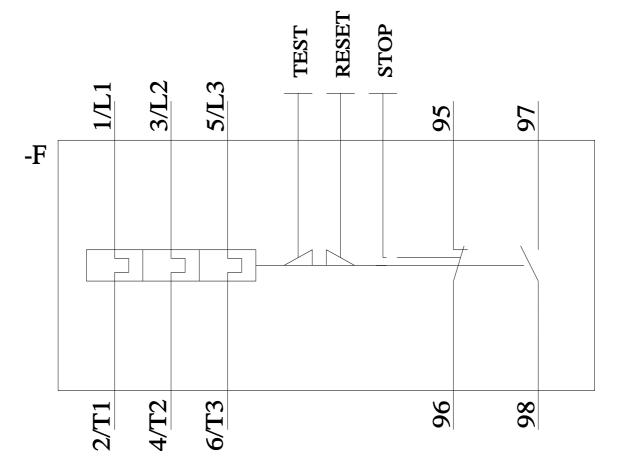
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4EC1&objecttype=14&gridview=view1











last modified: 3/8/2022 🖸