SIEMENS

Data sheet 3RU2126-1GB0



Overload relay 4.5...6.3 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 designation	3RU2
General technical data	31(02
size of overload relay	S0
size of overload relay size of contactor can be combined company-specific	S0
power loss [W] for rated value of the current at AC in hot	6.6 W
operating state	
• per pole	2.2 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 acc. 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 acc. to IEC 81346-2	F
Substance Prohibitance (Date)	01.10.2009
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	4.5 6.3 A
operating voltage rated value	690 V
operating frequency rated value	50 60 Hz
operational current rated value	6.3 A
operating power at AC-3	

 at 400 V rated value at 500 V rated value at 690 V rated value 4 kW Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts note note for contactor disconnection number of NO contacts for auxiliary contacts note for message "Tripped" 	
● at 690 V rated value Auxiliary circuit design of the auxiliary switch integrated number of NC contacts for auxiliary contacts ● note for contactor disconnection number of NO contacts for auxiliary contacts 1	
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • note number of NO contacts for auxiliary contacts 1 for contactor disconnection number of NO contacts for auxiliary contacts 1	
design of the auxiliary switch integrated number of NC contacts for auxiliary contacts note for contactor disconnection number of NO contacts for auxiliary contacts 1	
number of NC contacts for auxiliary contacts ● note number of NO contacts for auxiliary contacts 1 for contactor disconnection 1	
● note for contactor disconnection number of NO contacts for auxiliary contacts 1	
number of NO contacts for auxiliary contacts 1	
▼ HOLE	
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	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value 6.3 A	
• at 600 V rated value 6.3 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 Contactor mounting	
height 85 mm	
width 45 mm	
depth 85 mm	
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	
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 2x (1 2.5 mm²), 2x (2.5 10 mm²)	
— finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
• at AWG cables for main contacts 2x (16 12), 2x (14 8)	
type of connectable conductor cross-sections	
• for auxiliary contacts	
— 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)	
• 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 of the connection screw	
 for main contacts 	M4
 of the auxiliary and control contacts 	M3
Safety related data	
failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT
MTTF with high demand rate	2 280 y
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Slide switch
Certificates/ approvals	











For use in hazardous locations



Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping

UK Declaration of Conformity



Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping









Confirmation

other

Railway

Vibration and Shock

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=3RU2126-1GB0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RU2126-1GB0}$

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

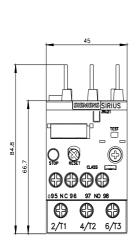
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1GB0

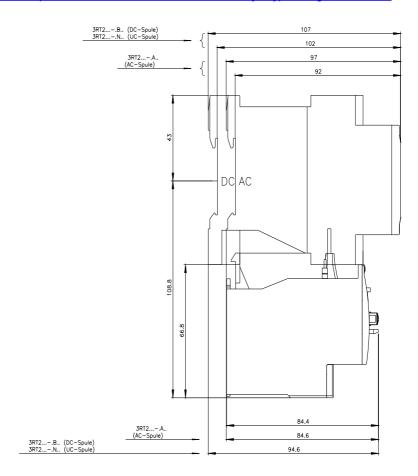
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

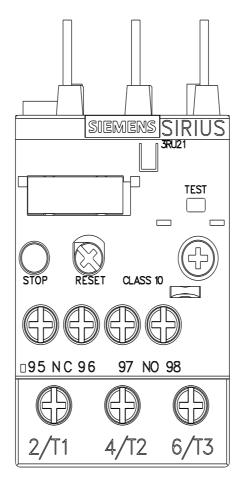
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1GB0\&lang=en}}$

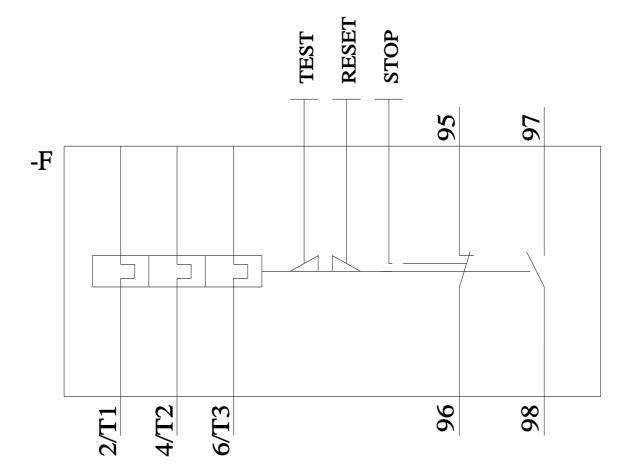
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1GB0/char Further characteristics (e.g. electrical endurance, switching frequency)









last modified: 12/1/2021 **C**