## **SIEMENS**

Data sheet 3RU2126-4FB0



Overload relay 34...40 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	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	
<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
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 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-40 +70 °C
<ul><li>during storage</li></ul>	-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	34 40 A
operating voltage	
<ul><li>rated value</li></ul>	690 V

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<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	40 A
operating power at AC-3	
at 400 V rated value	18.5 kW
at 500 V rated value	22 kW
at 690 V rated value	37 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
	10
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 0.22 A
• at 220 V	0.11 A
contact rating of auxiliary contacts according to UL	B600 / R300
	B000 / 1300
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	CLASS 10 thermal
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 40 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 40 A
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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 function 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  40 A 40 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)
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General Product Approval	For use in hazardous locations
Certificates/ approvals	
display version for switching status	Slide switch
Display	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front acc. to IEC 60529	IP20
T1 value for proof test interval or service life acc. to IEC 61508	20 y
MTTF with high demand rate	2 280 y
failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT
Safety related data	
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
<ul> <li>for main contacts</li> </ul>	M4
design of the thread of the connection screw	
size of the screwdriver tip	Pozidriv PZ 2
design of screwdriver shaft	Diameter 5 6 mm
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
tightening torque	
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>for auxiliary contacts</li> </ul>	
type of connectable conductor cross-sections	













Declaration of Conformity Test Certificates

CE.

Miscellaneous

Special Test Certific-ate Type Test Certific-ates/Test Report



Marine / Shipping



Marine / Shipping other









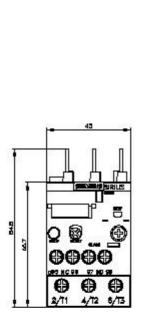


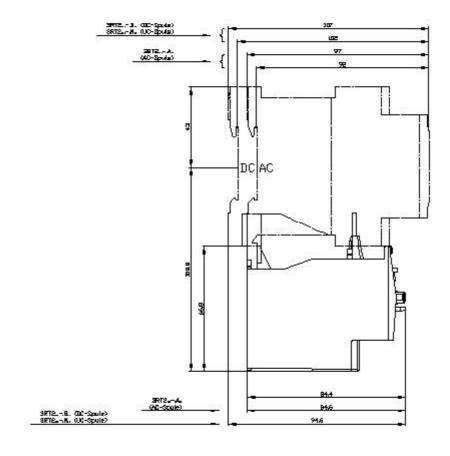
Confirmation

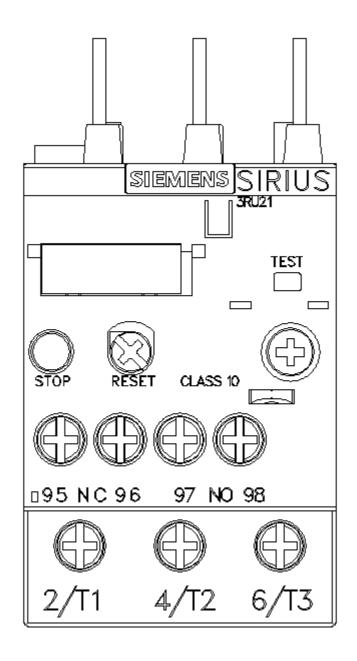
Railway

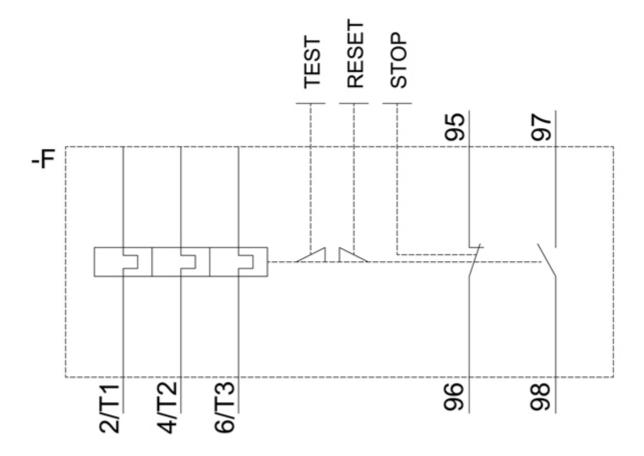
Vibration and Shock

Further information









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