SIEMENS

Data sheet 3RU2126-4DB0



Overload relay 20...25 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 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	
 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	20 25 A
operating voltage	
rated value	690 V

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at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	25 A
operating power at AC-3	
at 400 V rated value	11 kW
at 500 V rated value	15 kW
at 690 V rated value	22 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
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	
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 • at 600 V rated value	thermal 25 A
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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	
 of the auxiliary and control contacts 	M3
 for main contacts 	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
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
 for main contacts with screw-type terminals 	2 2.5 N·m
tightening torque	
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 for auxiliary contacts 	
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









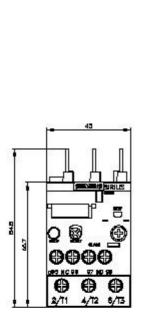


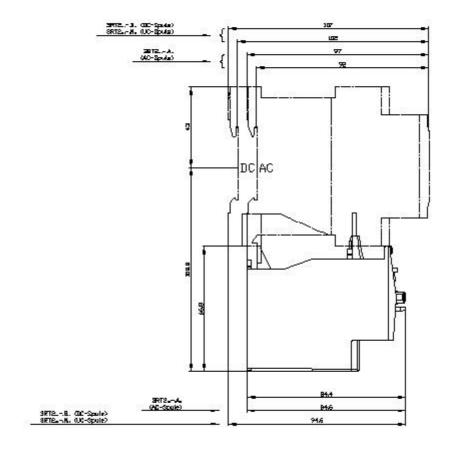
Confirmation

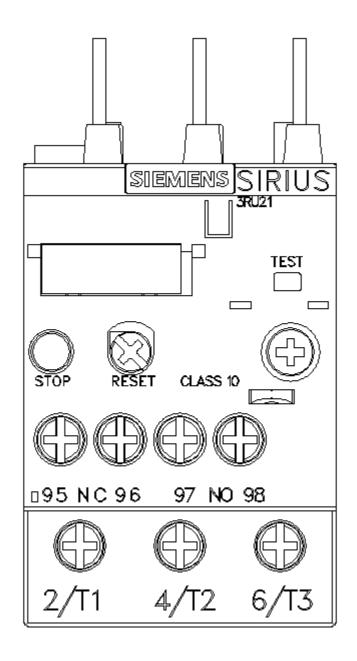
Railway

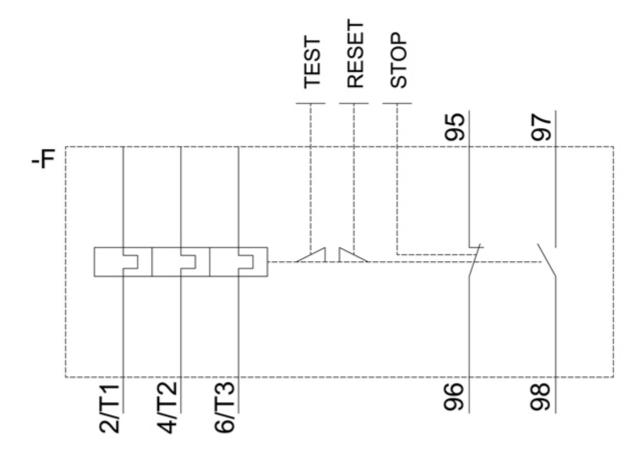
Vibration and Shock

Further information









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