SIEMENS

Data sheet

3RU2126-1CB0



Overload relay 1.8...2.5 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	SO
size of contactor can be combined company-specific	S0
power loss [W] for rated value of the current at AC in hot operating state	5.7 W
per pole	1.9 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	1.8 2.5 A
operating voltage rated value 	690 V

 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	2.5 A
operating power at AC-3	
• at 400 V rated value	0.75 kW
• at 500 V rated value	1.1 kW
• at 690 V rated value	1.5 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	Ŭ
• 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	1A
• at 400 V operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 24 V	0.3 A
	0.22 A
• at 110 V	0.22 A 0.22 A
• at 125 V	0.22 A 0.11 A
at 220 V	
contact rating of auxiliary contacts according to UL Protective and monitoring functions	B600 / R300
trip class	CLASS 10
design of the overload release UL/CSA ratings	thermal
full-load current (FLA) for 3-phase AC motor	254
at 480 V rated value	2.5 A
at 600 V rated value	2.5 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A
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	No
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

type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 15, mm²), 2x (0,75 2,5 mm²) 2x (20 16), 2x (18 14) tightening torque • for main contacts with screw-type terminals • for main contacts with screw-type terminals 0.6 1.2 N·m design of screwdriver shaft paraded of the connection screw • for main contacts • of main contacts M4 size of the screwdriver tip Pozidriv PZ 2 design of screwdriver dot the connection screw • for main contacts M4 stated data failure rate [FIT] with low demand rate acc. to SN 31920 Stofer yrolated data failure rate [FIT] with low demand rate to IEC 60529 protection on the front acc. to IEC 60529 fuch protection on the front acc. to IEC 60529 fuch protection on the front acc. to IEC 60529 fuch protection on the front acc. to IEC 60529 fuch protection on the front acc. to IEC 60529 fuch
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Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) Cax online generator

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

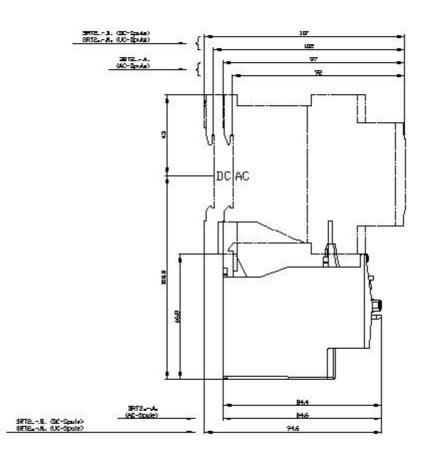
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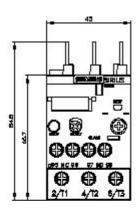
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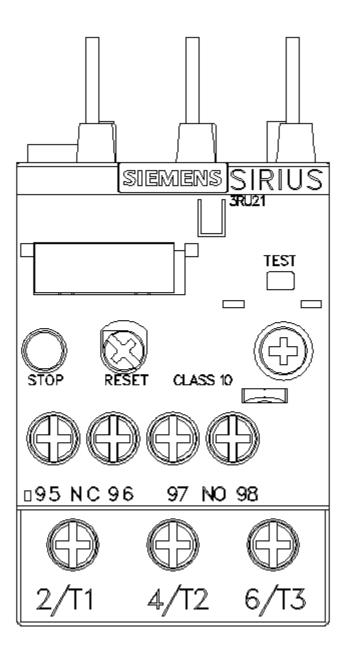
Characteristic: Tripping characteristics, I2t, Let-through current

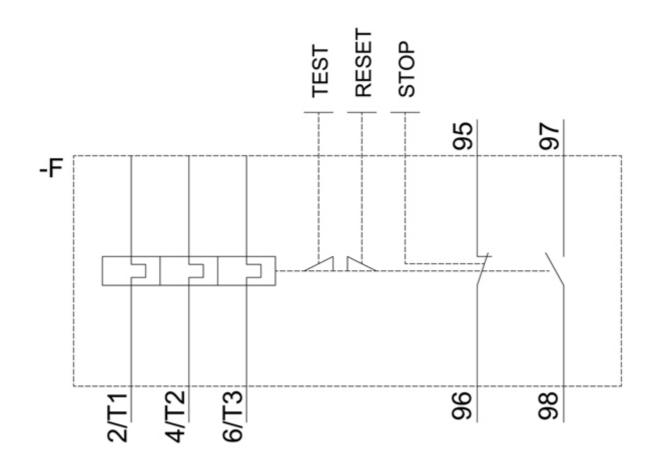
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1CB0&objecttype=14&gridview=view1









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