SIEMENS

Data sheet 3RU2136-4JB1

Overload relay 54...65 A Thermal For motor protection Size S2, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset



Product brand name	SIRIUS
Product designation	thermal overload relay
Product type designation	3RU2

eneral technical data	
Size of overload relay	S2
Size of contactor can be combined company-specific	S2
Power loss [W] total typical	12 W
nsulation voltage with degree of pollution 3 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 	415 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	415 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
Protection class IP	

IP20
IP00
8g / 11 ms
10 min
10 min
10 min
DMT 98 ATEX G 001
finger-safe when touched vertically from front acc. to IEC 60529
F
2 000 m
_
-40 +70 °C
-55 +80 °C
-55 +80 °C
-40 +60 °C
0 90 %
3
54 65 A
_
690 V
690 V
50 60 Hz
65 A
integrated
1
for contactor disconnection
1
for message "Tripped"
0

• at 24 V

• at 110 V

3 A

3 A

● at 120 V	3 A
• at 125 V	3 A
● at 230 V	2 A
● at 400 V	1 A
Operating 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
Design of the miniature circuit breaker	
 for short-circuit protection of the auxiliary switch required 	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
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 three-phase AC motor	
• at 480 V rated value	65 A
• at 600 V rated value	65 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
Mounting type	stand-alone installation
Height	105 mm
	117 mm
with side-by-side mounting	
— forwards	10 mm
	10 mm 0 mm 10 mm
Width Depth Required spacing	105 mm 55 mm 117 mm

- downwards

at the sidefor grounded parts

— forwards

- Backwards

10 mm

10 mm

10 mm

0 mm

— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/ Terminals	
Product function	
 removable terminal for auxiliary and control 	No
circuit	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
• for main contacts	
 single or multi-stranded 	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
 single or multi-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 conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
Tightening torque	
 for main contacts with screw-type terminals 	3 4.5 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	M6
• of the auxiliary and control contacts	M3
Safety related data	
T1 value for proof test interval or service life acc. to IEC 61508	20 y

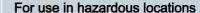
Safety related data	
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	

Display version

Slide switch

Certificates/ approvals

General Product Approval















IECEx

Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





other

Marine / Shipping

Lloyd's Register











Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4JB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4JB1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4JB1

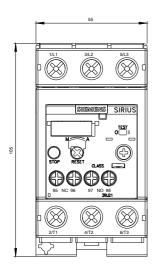
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4JB1&lang=en

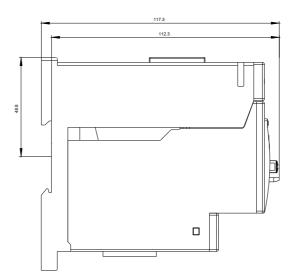
Characteristic: Tripping characteristics, I2t, Let-through current

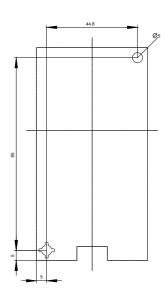
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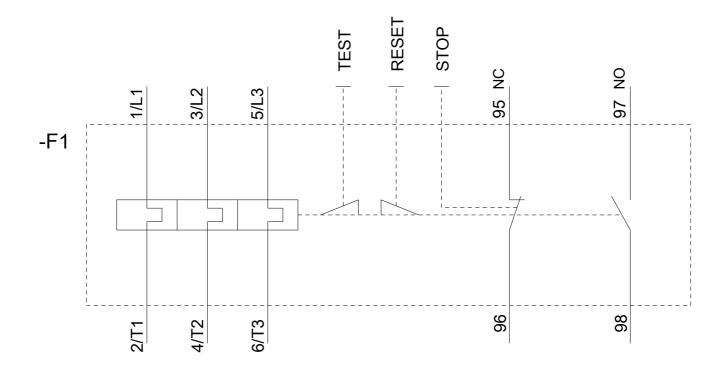
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4JB1&objecttype=14&gridview=view1









last modified: 08/07/2019