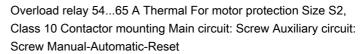
SIEMENS

Data sheet 3RU2136-4JB0





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

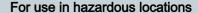
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current	
• at AC in hot operating state	15.6 W
• at AC in hot operating state per pole	5.2 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between auxiliary and auxiliary circuit 	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	
• on the front	IP20
• of the terminal	IP00
shock resistance	
• acc. to IEC 60068-2-27	8g / 11 ms
recovery time	
 after overload trip with automatic reset typical 	10 min
 after overload trip with remote-reset 	10 min
 after overload trip with manual reset 	10 min
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
Ambient conditions	
• installation altitude at height above sea level	2 000 m
maximum	
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	54 65 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	65 A
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 • at 110 V • at 120 V • at 125 V • at 230 V • at 400 V Operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 110 V • at 220 V • at 220 V design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch	
 at 110 V at 120 V 3 A at 125 V at 230 V at 400 V 1 A Operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 110 V at 125 V at 220 V Output 0.22 A at 220 V 0.11 A Description of the miniature circuit breaker for short-circuit protection of the auxiliary switch 6A (SCC less than equal to 0.5 kA; U less than equal to 260 km 	
 at 120 V at 125 V at 230 V at 400 V at 400 V at 24 V at 60 V at 110 V at 125 V at 125 V at 220 V design of the miniature circuit breaker for short-circuit protection of the auxiliary switch 3 A 3 A 2 A 2 A 0.3 A 0.22 A 0.22 A 0.11 A design of the miniature circuit breaker 6A (SCC less than equal to 0.5 kA; U less than equal to 260 	
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 at 230 V at 400 V 1 A operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V design of the miniature circuit breaker for short-circuit protection of the auxiliary switch 6A (SCC less than equal to 0.5 kA; U less than equal to 260) 	
 at 400 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V design of the miniature circuit breaker for short-circuit protection of the auxiliary switch 6A (SCC less than equal to 0.5 kA; U less than equal to 260) 	
operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch 6A (SCC less than equal to 0.5 kA; U less than equal to 260)	
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design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch 6A (SCC less than equal to 0.5 kA; U less than equal to 260)	
• for short-circuit protection of the auxiliary switch 6A (SCC less than equal to 0.5 kA; U less than equal to 260\	
required)
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 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 required fuse gG: 6 A, quick: 10 A	
Installation/ mounting/ dimensions	
mounting position any	
fastening method Contactor mounting	
Contactor mountains	
height 90 mm	
<u> </u>	
height 90 mm	
height 90 mm width 55 mm	
height 90 mm width 55 mm depth 105 mm	
height 90 mm width 55 mm depth 105 mm Connections/ Terminals	
height 90 mm width 55 mm depth 105 mm Connections/ Terminals product function • removable terminal for auxiliary and control No	
height 90 mm width 55 mm depth 105 mm Connections/ Terminals product function • removable terminal for auxiliary and control circuit	

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 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)
 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)
 type of connectable conductor cross-sections at AWG cables 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
Display	
display version	
• for switching status	Slide switch
Certificates/ approvals	

General Product Approval















IECEx

Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

Railway

Special Test Certificate

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=3RU2136-4JB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4JB0

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

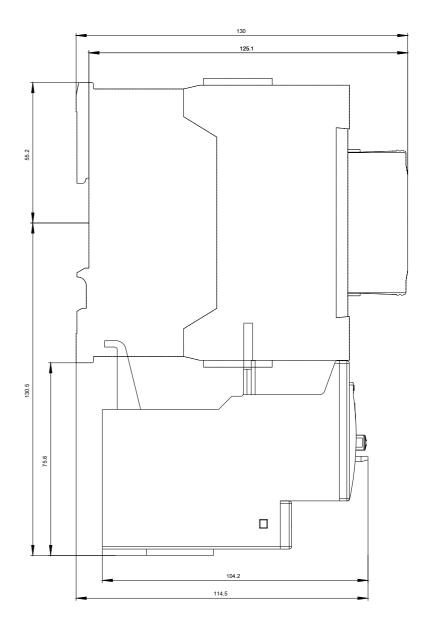
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4JB0

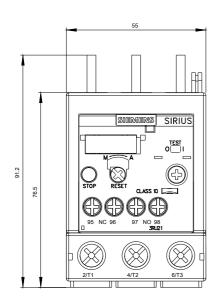
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4JB0&lang=en

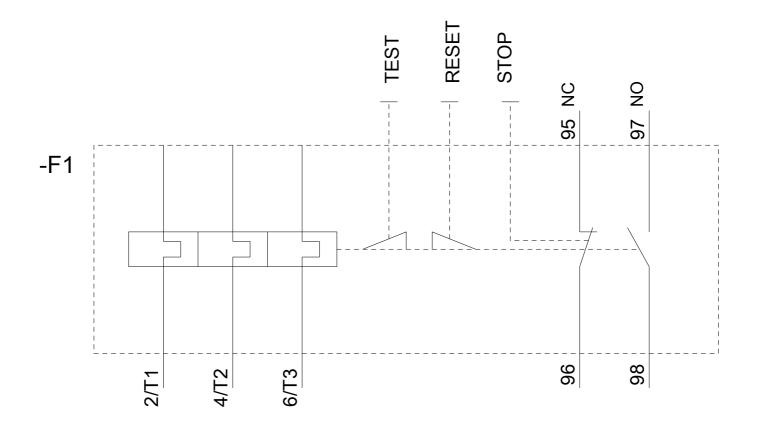
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4JB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4JB0&objecttype=14&gridview=view1







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