SIEMENS

Data sheet 3RU2136-4QB0

Overload relay 47...57 A for motor protection Size S2, CLASS 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset



Figure similar

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

General technical data	
Size of overload relay	S2
Size of contactor can be combined company-specific	S2
Power loss [W] total typical	11 W
Insulation 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 	690 V
main and auxiliary circuit	
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	Ex e
Certificate of suitability relating to ATEX	DMT 98 ATEX G 001
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Reference code acc. to DIN EN 81346-2	F
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	0 90 %
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	47 57 A
dependent overload release	
Operating voltage	690 V
• rated value	
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	57 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
Operating current of auxiliary contacts at AC-15	

3 A
3 A
3 A
3 A
2 A
1 A
2 A
0.3 A
0.22 A
0.22 A
0.11 A
6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
B600 / R300
CLASS 10
CLASS 10 thermal
thermal
thermal 57 A
thermal
thermal 57 A
thermal 57 A
thermal 57 A
thermal 57 A 57 A
thermal 57 A 57 A
thermal 57 A 57 A fuse gG: 6 A, quick: 10 A
thermal 57 A 57 A fuse gG: 6 A, quick: 10 A any
thermal 57 A 57 A fuse gG: 6 A, quick: 10 A any direct mounting
thermal 57 A 57 A fuse gG: 6 A, quick: 10 A any direct mounting 90 mm
thermal 57 A 57 A fuse gG: 6 A, quick: 10 A any direct mounting 90 mm 55 mm
thermal 57 A 57 A fuse gG: 6 A, quick: 10 A any direct mounting 90 mm 55 mm

— Backwards

— downwards

at the sidefor grounded parts

— upwards

0 mm

10 mm

10 mm

10 mm

— forwards	10 mm
— Backwards	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

O	
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	Top and bottom
circuit	
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	

carety related data	
T1 value for proof test interval or service	life acc. to

IEC 61508

20 y

Display

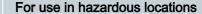
Display version

• for switching status

Slide switch

Certificates/approvals

General Product Approval















IECEx

Declaration of
Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other







Confirmation

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4QB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4QB0

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

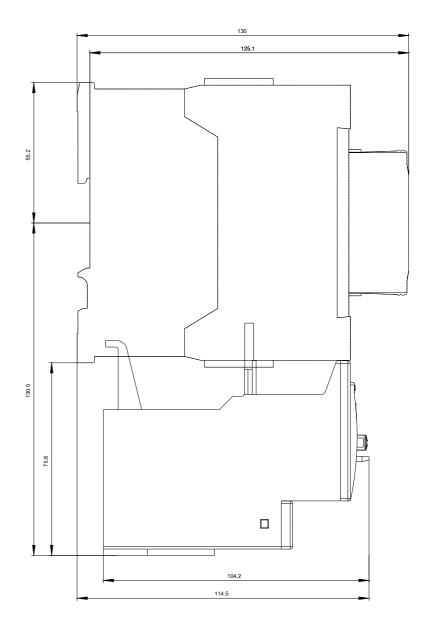
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QB0

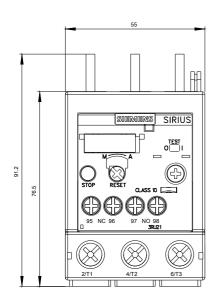
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4QB0&lang=en

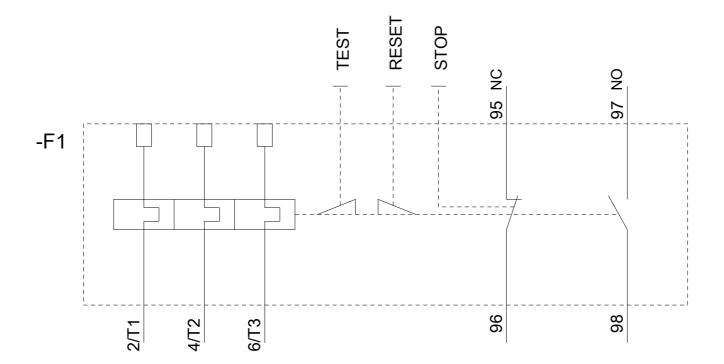
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4QB0&objecttype=14&gridview=view1







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