

SIEMENS

Data sheet 3RB3036-1UB0

Overload relay 12.5...50 A for motor protection Size S2, Class 10E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset



Figure similar

Product brand name	SIRIUS
Product designation	solid-state overload relay
Product type designation	3RB3

General technical data	
Size of overload relay	S2
Size of contactor can be combined company-specific	S2
Power loss [W] total typical	1.8 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 	300 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between main and auxiliary circuit 	600 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	15g / 11 ms
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
Thermal current	50 A
Recovery time	
 after overload trip with automatic reset typical 	3 min
 after overload trip with remote-reset 	0 min
 after overload trip with manual reset 	0 min
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001
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	0.000
• maximum	2 000 m
Ambient temperature	25 100 °C
during operation	-25 +60 °C
during storage	-40 +80 °C
• during transport	-40 +80 °C
Temperature compensation	-25 +60 °C
Relative humidity during operation	10 95 %
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	12.5 50 A
Operating voltage	
• rated value	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	50 A
Operating power	
• for three-phase motors at 400 V at 50 Hz	7.5 22 kW
● for AC motors at 500 V at 50 Hz	11 30 kW
• for AC motors at 690 V at 50 Hz	11 45 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
Operating current of auxiliary contacts at AC-15	
● at 24 V	4 A
● at 110 V	4 A
● at 120 V	4 A
● at 125 V	4 A
● at 230 V	3 A
Operating current of auxiliary contacts at DC-13	
● at 24 V	2 A
● at 60 V	0.55 A
● at 110 V	0.3 A
● at 125 V	0.3 A
• at 220 V	0.11 A
Donto di con di considerata di continua	
Protective and monitoring functions Trip class	CLASS 10E
Design of the overload release	electronic
-	3.00.0.0.0
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	50 A
• at 600 V rated value	50 A
Contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 250 A
 — with type of assignment 2 required 	gG: 200 A
• for short-circuit protection of the auxiliary switch	fuse gG: 6 A
required	
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	99 mm
Width	55 mm
Depth	104 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm

— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Yes
screw-type terminals
screw-type terminals
Top and bottom
1x (1 50 mm²), 2x (1 35 mm²)
2x (10 35 mm²), 1x 50 mm²
1x (1 50 mm²), 2x (1 35 mm²)
1x (1 35 mm²), 2x (1 25 mm²)
2x (18 2), 1x (18 1)
1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
1x (20 14), 2x (20 14)
3 4.5 N·m
0.8 1.2 N·m

Design of screwdriver shaft	Diameter 5 to 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
Communication/ Protocol	
Type of voltage supply via input/output link master	No
Electromagnetic compatibility	
Conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3
 due to high-frequency radiation acc. to IEC 61000-4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Display	
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Display version

• for switching status

Slide switch

Certificates/approvals

General Product Approval

EMC

For use in hazardous locations













Declaration of	f
Conformity	



Marine / Shipping













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=3RB3036-1UB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3036-1UB0

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

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UB0}}$

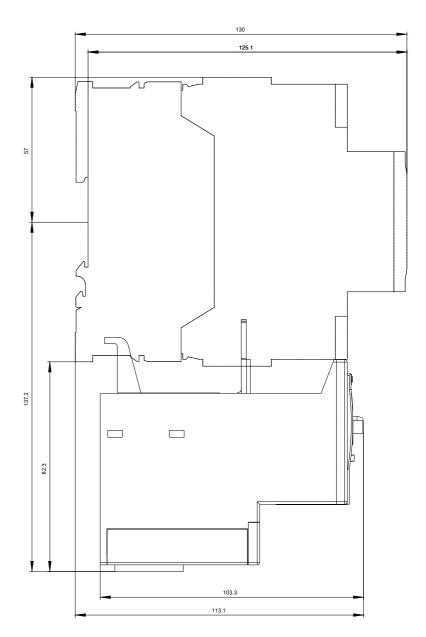
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-1UB0&lang=en

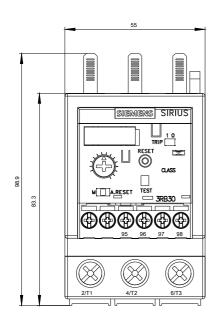
Characteristic: Tripping characteristics, I2t, Let-through current

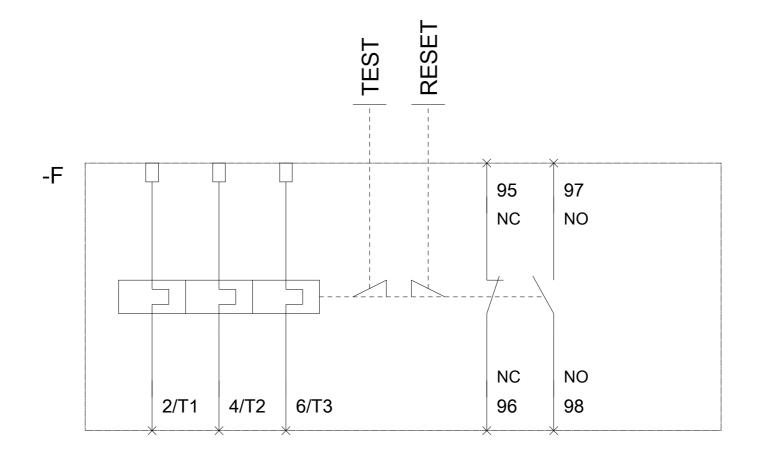
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-1UB0&objecttype=14&gridview=view1







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