SIEMENS

Data sheet 3RB2036-1UB0

Overload relay 12.5...50 A For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw terminal Auxiliary circuit: Screw terminal Manual-Automatic-Reset !!! Phased-out product !!! Successor is SIRIUS 3RB3 Preferred successor type is >>3RB3036-1UB0<<

product brand name	SIRIUS
product designation	solid-state overload relay

General technical data	
Size of contactor can be combined company-specific	S2
• Power loss [W] for rated value of the current at AC in hot operating state	0.05 W
• power loss [W] for rated value of the current at AC in hot operating state per pole	0.02 W
insulation voltage	
• with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
protection class IP	
• on the front	IP00
• **shock resistance**	15g / 11 ms
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
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	-25 ... +60 °C
• ambient temperature during storage	-40 ... +80 °C
• ambient temperature during transport	-40 ... +80 °C
relative humidity during operation	100 %

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 at AC-3 rated value maximum	690 V

Auxiliary circuit	
• **number of NC contacts for auxiliary contacts**	1
• **number of NO contacts for auxiliary contacts**	1
• number of CO contacts for auxiliary contacts	0
• operating current of auxiliary contacts at AC-15 at 24 V	4 A
• Operating current of auxiliary contacts at AC-15 at 110 V	4 A
• Operating current of auxiliary contacts at AC-15 at 120 V	4 A
• Operating current of auxiliary contacts at AC-15 at 125 V	4 A
• Operating current of auxiliary contacts at AC-15 at 230 V	3 A
• operating current of auxiliary contacts at DC-13 at 24 V	2 A
• Operating current of auxiliary contacts at DC-13 at 60 V	0.55 A
• Operating current of auxiliary contacts at DC-13 at 110 V	0.3 A
• operating current of auxiliary contacts at DC-13 at 125 V	0.3 A
• Operating current of auxiliary contacts at DC-13 at 220 V	0.11 A

Protective and monitoring functions	
trip class	CLASS 10E

Short-circuit protection	
Design of the fuse link	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A

Installation/ mounting/ dimensions	
• **mounting position**	any

• **mounting type**	Contactor mounting
height	92 mm
width	55 mm
depth	109 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
• required spacing for grounded parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• Required spacing for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

Connections/ Terminals	
• product function removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
•	
— Type of connectable conductor cross-sections for main contacts solid	2x (1 ... 16 mm²)
— Type of connectable conductor cross-sections for main contacts stranded	2x (max. 25 mm²), 1 ... 35 mm²
— type of connectable conductor cross-sections for main contacts finely stranded with core end processing	2x (1 ... 16 mm²), 1 ... 25 mm²
• Type of connectable conductor cross-sections at AWG conductors for main contacts	2 x (max. 4), 1 x (18 ... 2)
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— Type of connectable conductor cross-sections for auxiliary contacts solid	0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²)

— type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing	0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)
• Type of connectable conductor cross-sections at AWG conductors for auxiliary contacts	2x (20 ... 14)

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
• Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
• Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (line to line) corresponds to degree of severity 3
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

Certificates/ approvals

General Product Approval				EMC	For use in hazardous locations
CCC	CSA	UL	EAC	RCM	ATEX

Declaration of Conformity		Test Certificates		Marine / Shipping	
EG-Konf.	Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	ABS	LRS

Marine / Shipping		other	
RINA		Miscellaneous	Confirmation

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=3RB2036-1UB0

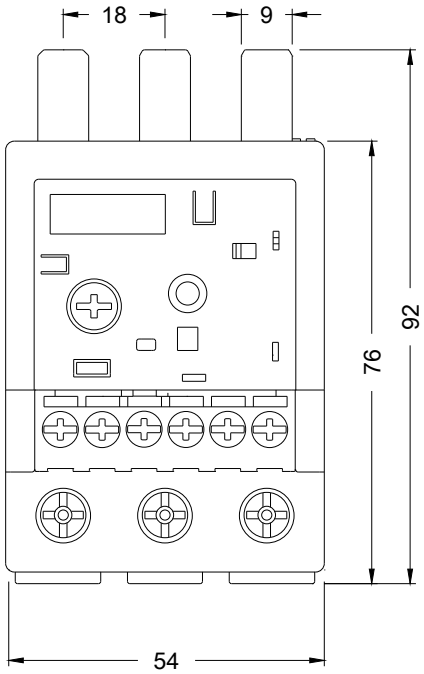
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2036-1UB0

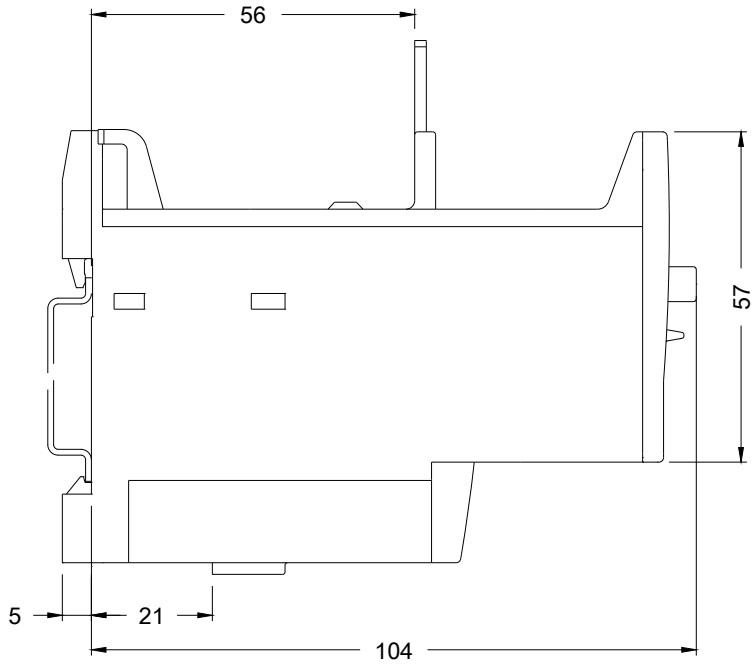
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RB2036-1UB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2036-1UB0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RB2036-1UB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2036-1UB0&objecttype=14&gridview=view1





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