SIEMENS

Data sheet 3RB3036-1UX1



Overload relay 12.5...50 A Electronic For motor protection Size S2, Class 10E Stand-alone installation Main circuit: Straight-through transformer Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

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] for rated value of the current at AC in hot operating state	0.1 W	
• per pole	0.03 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 protective separation in networks with grounded star point		
 between auxiliary and auxiliary circuit 	300 V	
 between auxiliary and auxiliary circuit 	300 V	
 between main and auxiliary circuit 	600 V	
between main and auxiliary circuit	690 V	
shock resistance	15g / 11 ms	
according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms	
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles	
thermal current	50 A	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p]	
certificate of suitability according to ATEX directive 2014/34/EU	PTB 09 ATEX 3001	
reference code according to IEC 81346-2	F	
Substance Prohibitance (Date)	10/15/2014	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
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 current response value current of the current- dependent overload release	12.5 50 A	
operating voltage		
• rated value	690 V	
at AC-3e rated value maximum	690 V	
operating frequency rated value	50 60 Hz	

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operational current rated value	50 A
operational current at AC-3e at 400 V rated value	50 A
operating power	7.5 22 kW
• for 3-phase motors at 400 V at 50 Hz	11 30 kW
• for AC motors at 500 V at 50 Hz	
for AC motors at 690 V at 50 Hz Auxiliary circuit	11 45 kW
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	4 A
• at 110 V	4 A
• at 120 V	4 A
• at 125 V	4 A
• at 230 V	3 A
operational 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
Protective and monitoring functions	
trip class	CLASS 10E
design of the overload release	electronic
UL/CSA ratings	
full-load current (FLA) for 3-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 required	fuse gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	81 mm
width	55 mm
depth	109 mm
Connections/ Terminals	Ven
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	straight-through transformers
for auxiliary and control circuit	spring-loaded terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for auxiliary contacts	
	2v (0.2E 1.E mm²)
— solid	2x (0.25 1.5 mm²)
— solid or stranded	2x (0,25 1,5 mm²)
solid or stranded finely stranded with core end processing	2x (0,25 1,5 mm²) 2x (0.25 1.5 mm²)
— solid or stranded— finely stranded with core end processing— finely stranded without core end processing	2x (0,25 1,5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)
solid or stranded finely stranded with core end processing	2x (0,25 1,5 mm²) 2x (0.25 1.5 mm²)

size of the screwdriver tip	Pozidriv PZ 2			
Safety related data				
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
Communication/ Protocol				
type of voltage supply via input/output link master	No			
Electromagnetic compatibility				
conducted interference				
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3			
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3			
 due to high-frequency radiation according to IEC 61000- 4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz			
field-based interference according to IEC 61000-4-3	10 V/m			
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge			
Display				
display version for switching status	Slide switch			
Certificates/ approvals				
General Product Approval		EMC		



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping



LRS







Confirmation

other

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RB3036-1UX1

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB3036-1UX1}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UX1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

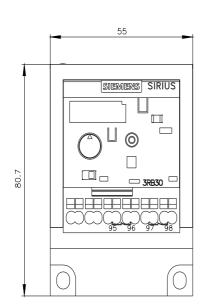
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-1UX1&lang=en

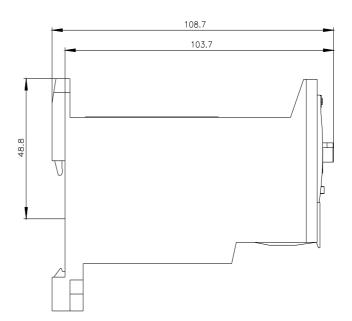
Characteristic: Tripping characteristics, I2t, Let-through current

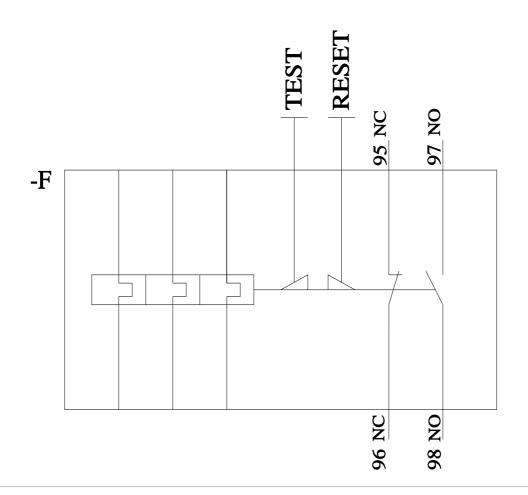
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UX1/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-1UX1&objecttype=14&gridview=view1







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