SIEMENS

Data sheet 3RB3036-1WW1



Overload relay 20...80 A Electronic For motor protection Size S2, Class 10E Standalone installation Main circuit: Straight-through transformer Auxiliary circuit: Screw 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	0.2 W
• per pole	0.07 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
thermal current	80 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
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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	20 80 A
operating voltage	
rated value	690 V
 at AC-3e rated value maximum 	690 V

onorating frequency rated value	50 60 Hz
operating frequency rated value	50 60 Hz
operational current rated value operational current at AC-3e at 400 V rated value	80 A
operating power	00 A
• for 3-phase motors at 400 V at 50 Hz	11 37 kW
• for AC motors at 500 V at 50 Hz	15 55 kW
• for AC motors at 690 V at 50 Hz	18.5 75 kW
Auxiliary circuit	10.5 75 KVV
	internated
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection 1
number of NO contacts for auxiliary contacts	
• note	for message "tripped" 0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15 • at 24 V	4 A
• at 24 V	4 A
at 120 V at 125 V	4 A 4 A
	4 A 3 A
• at 230 V	38
operational current of auxiliary contacts at DC-13	2.4
• at 24 V	2 A 0.55 A
at 60 V at 110 V	0.55 A 0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A
Protective and monitoring functions	01.400.445
trip class	CLASS 10E
design of the overload release	electronic
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	00 A
at 480 V rated value	80 A
at 600 V rated value	80 A
contact rating of auxiliary contacts according to UL Short-circuit protection	B600 / R300
design of the fuse link	
for short-circuit protection of the main circuit with type of coordination 1 required.	~C. 250 A DIVE. 200 A
— with type of coordination 1 required	gG: 250 A, RK5: 300 A
— with type of assignment 2 required	gG: 250 A
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	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	Voc
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	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections for main contacts • solid or stranded	1x (1 50 mm²), 2x (1 35 mm²)
type of connectable conductor cross-sections	(
for auxiliary contacts	
for auxiliary contacts — solid	1x (0.5 4 mm²) 2x (0.5 2.5 mm²)
— solid	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 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)

for AWG cables for auxiliary contacts	1x (20 14), 2x (20 14)
tightening torque	
 for auxiliary contacts with screw-type terminals 	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	
 of the auxiliary and control contacts 	M3
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	
	012//2002-0012/ 412//2002-0012/
 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 burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 2 kV (line to earth) corresponds to degree of severity 3
· ·	
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 	2 kV (line to earth) corresponds to degree of severity 3
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000- 	2 kV (line to earth) corresponds to degree of severity 3 1 kV (line to line) corresponds to degree of severity 3
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 	2 kV (line to earth) corresponds to degree of severity 3 1 kV (line to line) corresponds to degree of severity 3 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3	2 kV (line to earth) corresponds to degree of severity 3 1 kV (line to line) corresponds to degree of severity 3 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	2 kV (line to earth) corresponds to degree of severity 3 1 kV (line to line) corresponds to degree of severity 3 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz

General Product Approval



Confirmation







EMC

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

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3036-1WW1}$

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB3036-1WW1}$

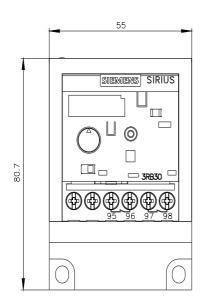
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

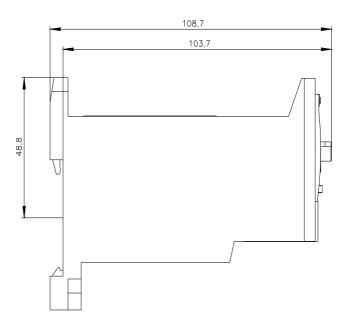
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1WW1

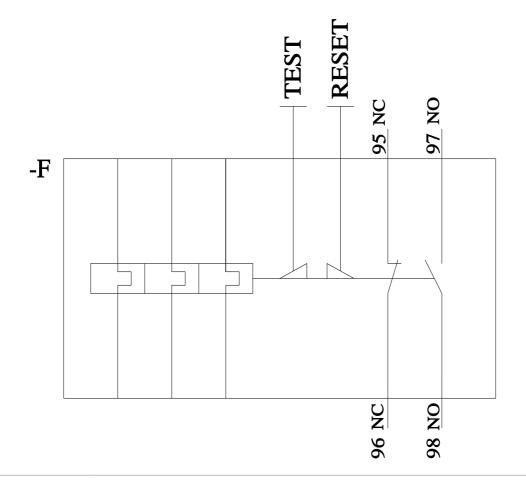
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-1WW1&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-1WW1&objecttype=14&gridview=view1







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