SIEMENS

Data sheet 3RB3036-1UW1



Overload relay 12.5...50 A Electronic For motor protection Size S2, Class 10E Stand-alone 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	0.1 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 safe isolation 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/s ² ; 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
operational current rated value	50 A
operational current at AC-3e at 400 V rated value	50 A
operating power	
 for 3-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 number of CO contacts for auxiliary contacts 	for message "tripped" 0
operational current of auxiliary contacts at AC-15	O
• 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	01400405
trip class design of the overload release	CLASS 10E electronic
UL/CSA ratings	CIECTIONIC CO.
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 	fuse gG: 6 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation 81 mm
height width	55 mm
depth	109 mm
Connections/ Terminals	
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	4.4 (0 E
— solid — solid or stranded	1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
— solid of stranded — finely stranded with core end processing	1x (0.5 4 mm²), 2x (0.5 2,5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
— intory strainaged with core one processing	1. (0.0 2.0 Hilli), 2. (0.0 1.0 Hilli)

• at 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 IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front 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 due to conductor-earth surge according to IEC 2 kV (line to earth) corresponds to degree of severity 3 61000-4-5 1 kV (line to line) corresponds to degree of severity 3 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 61000-4-6 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

Confirmation









EMC

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping









Confirmation

other

Further information

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3036-1UW1

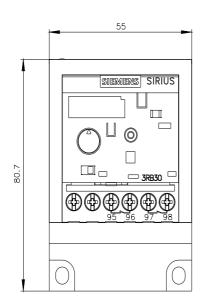
Cax online generator

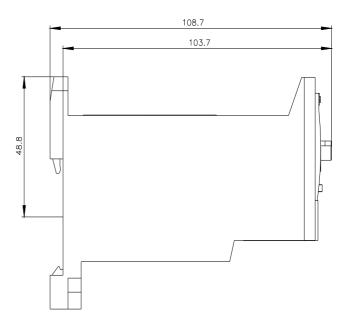
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UW1

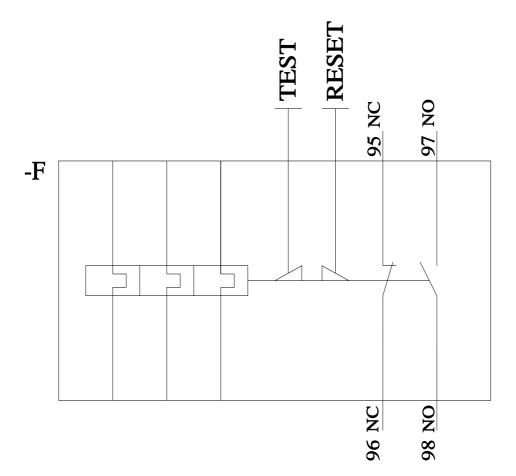
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UW1/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-1UW1&objecttype=14&gridview=view1







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