SIEMENS

Data sheet 3RB3036-2WB0



Overload relay 20...80 A Electronic For motor protection Size S2, Class 20E Contactor mounting Main circuit: Screw 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	4.6 W
• per pole	1.53 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	60 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	20 80 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	80 A
operational current at AC-3e at 400 V rated value	60 A
operating power ● 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	
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 24 V	4 A 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	21.122.22
trip class	CLASS 20E
design of the overload release	electronic
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	60 A
at 600 V rated value	60 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, RK5: 300 A
 — with type of assignment 2 required 	gG: 250 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A
required	
Installation/ mounting/ dimensions	
mounting position	any Contactor mounting
fastening method height	Contactor mounting 99 mm
width	55 mm
depth	104 mm
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit	
type of electrical connection	
for main current circuit for auxilians and control circuit	screw-type terminals
 for auxiliary and control circuit arrangement of electrical connectors for main current 	screw-type terminals Top and bottom
circuit	τορ απα υσιισπι
type of connectable conductor cross-sections for main contacts	
• solid	1x (1 50 mm²), 2x (1 35 mm²)
• stranded	2x (10 35 mm²), 1x 50 mm²
• solid or stranded	1x (1 50 mm²), 2x (1 35 mm²)
finely stranded with core end processing	1x (1 35 mm²), 2x (1 25 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	

- solid 1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²) 1x (0,5 ... 4 mm²), 2x (0,5 ... 2,5 mm²) - solid or stranded - finely stranded with core end processing 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) • at AWG cables for auxiliary contacts 1x (20 ... 14), 2x (20 ... 14) tightening torque 3 ... 4.5 N·m • for main contacts with screw-type terminals • 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 • for main contacts M6 • 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 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 • due to conductor-earth surge according to IEC 2 kV (line to earth) corresponds to degree of severity 3 61000-4-5 • due to conductor-conductor surge according to IEC 1 kV (line to line) corresponds to degree of severity 3 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 electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge Slide switch display version for switching status 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

other











Confirmation

Further information

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=3RB3036-2WB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3036-2WB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0

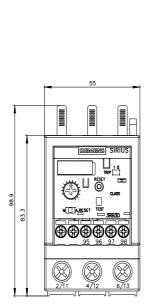
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2WB0&lang=en

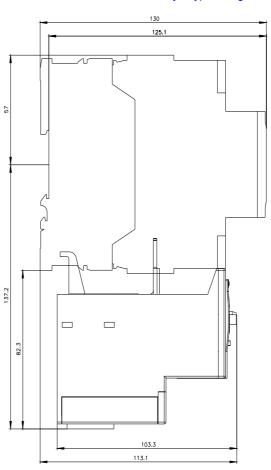
Characteristic: Tripping characteristics, I2t, Let-through current

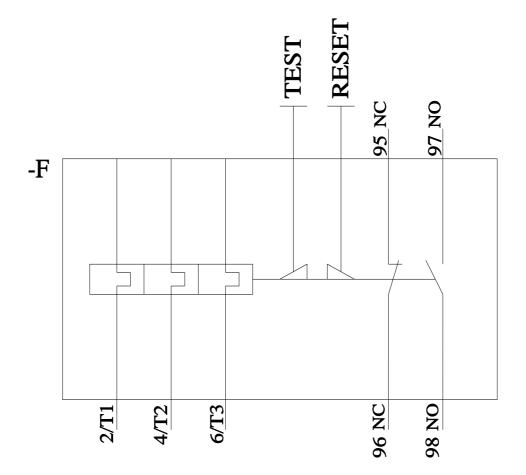
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-2WB0&objecttype=14&gridview=view1







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