SIEMENS

Data sheet 3RB3036-2WD0



Figure similar

OVERLOAD RELAY 20...80 A FOR MOTOR PROTECTION SIZE S2, CLASS 20E FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SPRING-T. TERM. 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] total typical	4.6 W
Insulation voltage with degree of pollution 3 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
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between main and auxiliary circuit 	600 V

in networks with grounded star point between	690 V
main and auxiliary circuit	
Protection class IP	
• on the front	IP20
of the terminal	IP00
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Thermal current	60 A
Recovery time	
 after overload trip with automatic reset typical 	3 min
 after overload trip with remote-reset 	0 min
after overload trip with manual reset	0 min
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Equipment marking acc. to DIN EN 81346-2	F
Ambient conditions	
Ambient temperature	
during operation	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
Temperature compensation	6025 °C
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	20 80 A
Operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating requestly rated value	80 A
Operating current rated value Operating power for three-phase motors at 400 V at	11 37 kW
50 Hz	11 07 KW
Auxiliary circuit Design of the auxiliary switch	intograted
Number of NC contacts	integrated
	1
• for auxiliary contacts	
— Note	for contactor disconnection
Number of NO contacts	1
for auxiliary contacts	1 for message "tripped"
— Note	TOT THESSAGE TRIDDEG
	161 mossage uipped
Number of CO contacts • for auxiliary contacts	0

Operating 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
Operating 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 20E Design of the overload release electronic

UL/CSA ratings	
Full-load current (FLA) for three-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 th	e fuse	link
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• for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch

required

gG: 250 A, RK5: 300 A

gG: 250 A

fuse gG: 6 A

·	
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	99 mm
Width	55 mm
Depth	104 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm

0 mm

0 mm

- downwards

— at the side

• for grounded parts

— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/Terminals	
Product function	
 removable terminal for auxiliary and control 	Yes
circuit	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Arrangement of electrical connectors for main current	Top and bottom
circuit	
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
 finely stranded with core end processing 	1x (1 35 mm²), 2x (1 25 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
Type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
— single or multi-stranded	2x (0,25 1,5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
 finely stranded without core end 	2x (0.25 1.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	1x (24 16), 2x (24 16)
Tightening torque	
 for main contacts with screw-type terminals 	3 4.5 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm
Size of the screwdriver tip	Pozidriv PZ 2
Communication/ Protocol	
Type of voltage supply via input/output link meeter	No

Communication/ Protocol	
Type of voltage supply via input/output link master	No
Electromagnetic compatibility	

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

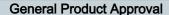
Display

Display version

• for switching status

Slide switch

Certificates/approvals



For use in hazardous locations

Declaration of Conformity













Test Certificates Marine / Shipping

Type Test Certificates/Test Report





LRS







Marine / **Shipping** other



Environmental Confirmations

Confirmation

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3036-2WD0

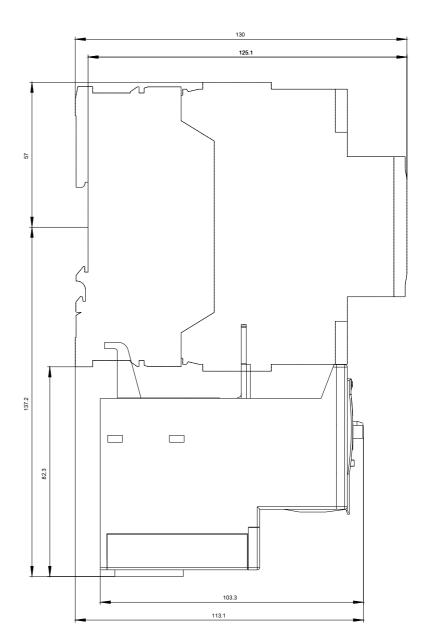
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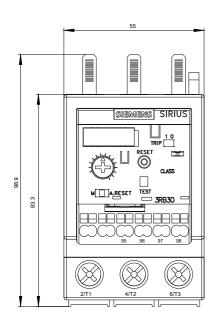
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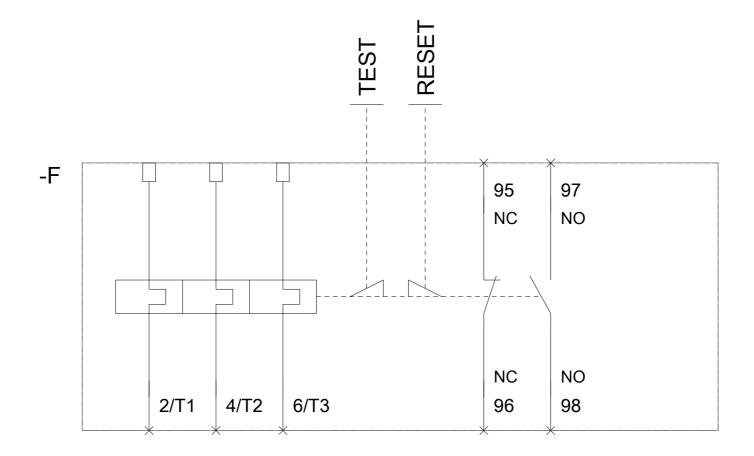
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WD0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2WD0&lang=en







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