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			
• acc. 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			
recovery time after overload trip				
 with automatic reset typical 	3 min			
with remote-reset	0 min			
with manual reset	0 min			
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 acc. to IEC 81346-2	F			
Substance Prohibitance (Date)	15.10.2014 00:00:00			
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	20 80 A
current-dependent overload release	
operating voltage	
rated value	690 V
 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	80 A
operating power	
	11 37 kW
• for 3-phase motors at 400 V at 50 Hz	
• 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 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 20E
design of the overload release	electronic
UL/CSA ratings	Clock of the
3	
full-load current (FLA) for 3-phase AC motor	00.4
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	ŭ
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	99 mm
width	55 mm
depth	104 mm
Connections/ Terminals	
	Von
product component removable terminal for auxiliary and control circuit	Yes
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type of electrical connection	

for main current circuit	screw-type terminals			
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	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)			
at AWG cables for main contacts	2x (18 2), 1x (18 1)			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)			
— solid or stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)			
 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				
for main contacts with screw-type terminals	3 4.5 N·m			
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	MG			
of the auxiliary and control contacts	M6			
·	M3			
Safety related data	ID20			
protection class IP on the front acc. to IEC 60529	IP20 finger-safe, for vertical contact from the front			
touch protection on the front acc. to IEC 60529	linger-sale, for vertical conta	act from the from		
Communication/ Protocol	NI-			
type of voltage supply via input/output link master	No			
Electromagnetic compatibility				
conducted interference				
 due to burst acc. to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3			
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3			
• due to high-frequency radiation acc. to IEC 61000- 4-6	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz			
field-based interference 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				
General Product Approval		ЕМС	For use in hazard- ous locations	













Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other







Confirmation

Further information

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, ...)

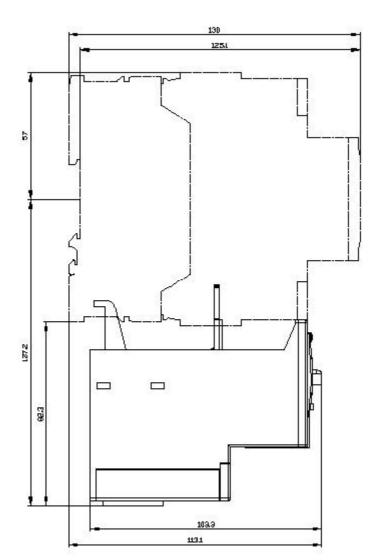
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2WB0&lang=en

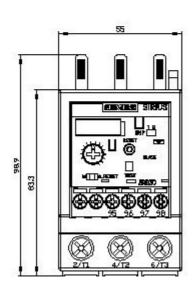
Characteristic: Tripping characteristics, I2t, Let-through current

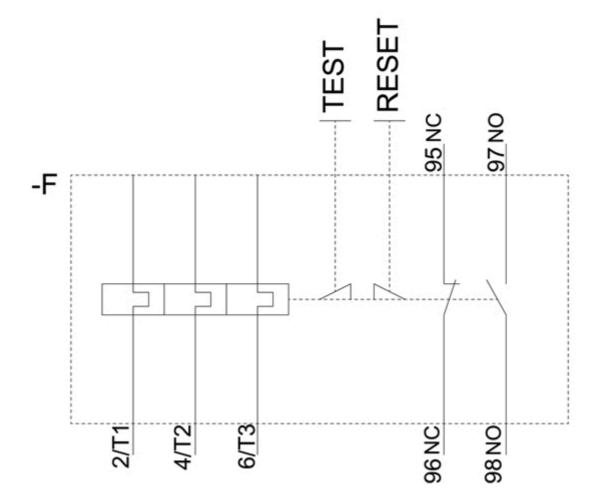
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2WB0/char

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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