SIEMENS

Data sheet 3RB3036-1WB0



Overload relay 20...80 A Electronic For motor protection Size S2, Class 10E 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		
eneral 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		
nsulation 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/s²; 10 cycles		
thermal current	80 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		
mbient conditions			
nstallation 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		

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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	20 00 / (
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			
• 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	10.0 iii 70 kW		
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	integrated 1		
note	for contactor disconnection		
number of NO contacts for auxiliary contacts	1 for massage "tripped"		
• note	for message "tripped"		
number of CO contacts for auxiliary contacts	0		
operational current of auxiliary contacts at AC-15	4.4		
• 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 10E		
design of the overload release	electronic		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
 at 480 V rated value 	80 A		
at 600 V rated value	80 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		
fastening method	Contactor mounting		
height	99 mm		
width	55 mm		
depth	104 mm		
Connections/ Terminals			
product function removable terminal for auxiliary and	Yes		
control circuit			
type of electrical connection			

General Product Approval		EMC	ous locations	
			For use in hazard-	
display version for switching status Certificates/ approvals	Slide switch			
Display display version for switching status	Slide switch			
-	o ky contact discharge / 8 k	v all discridige		
field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2	10 V/m 6 kV contact discharge / 8 kV air discharge			
4-6	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz			
61000-4-5 • due to high-frequency radiation acc. to IEC 61000-	1 kV (line to line) corresponds to degree of severity 3			
 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 	2 kV (line to earth) corresponds to degree of severity 3			
• due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
conducted interference				
Electromagnetic compatibility				
type of voltage supply via input/output link master	No			
Communication/ Protocol				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front			
protection class IP on the front acc. to IEC 60529	IP20			
Safety related data				
of the auxiliary and control contacts	M3			
• for main contacts	M6			
design of the thread of the connection screw				
size of the screwdriver tip	Pozidriv PZ 2			
design of screwdriver shaft	Diameter 5 to 6 mm			
for auxiliary contacts with screw-type terminals	3 4.5 N·m			
• for main contacts with screw-type terminals	3 4.5 N·m			
-	- 1X (20 14), 2X (20 14)			
at AWG cables for auxiliary contacts	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 14)			
— solid of stranded — finely stranded with core end processing	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)			
— solid — solid or stranded	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)			
• for auxiliary contacts	1 · (0 F	O. F. mana2\		
type of connectable conductor cross-sections				
at AWG cables for main contacts	2x (18 2), 1x (18 1)			
 finely stranded with core end processing 	1x (1 35 mm²), 2x (1 25 mm²)			
— solid or stranded	1x (1 50 mm²), 2x (1 35 mm²)			
— stranded	2x (10 35 mm²), 1x 50 mm²			
— solid	1x (1 50 mm²), 2x (1 35 mm²)			
for main contacts				
type of connectable conductor cross-sections				
arrangement of electrical connectors for main current circuit	Top and bottom			
 for auxiliary and control circuit 	screw-type terminals			
 for main current circuit 	screw-type terminals			













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test Certific-ates/Test Report Special Test Certific-ate





Marine / Shipping other



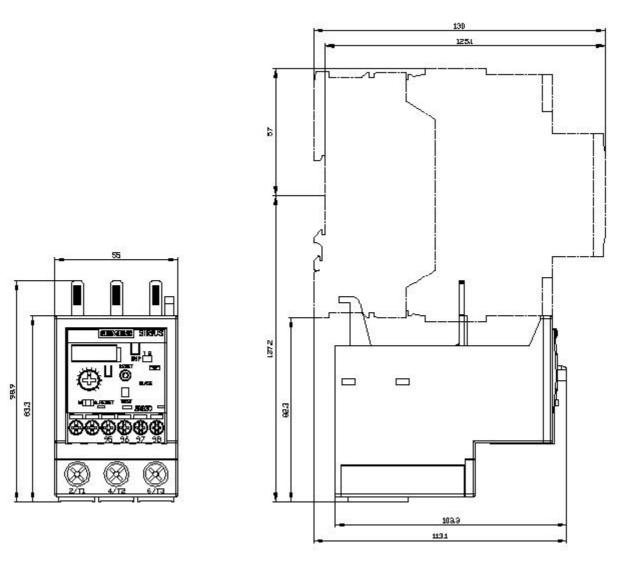


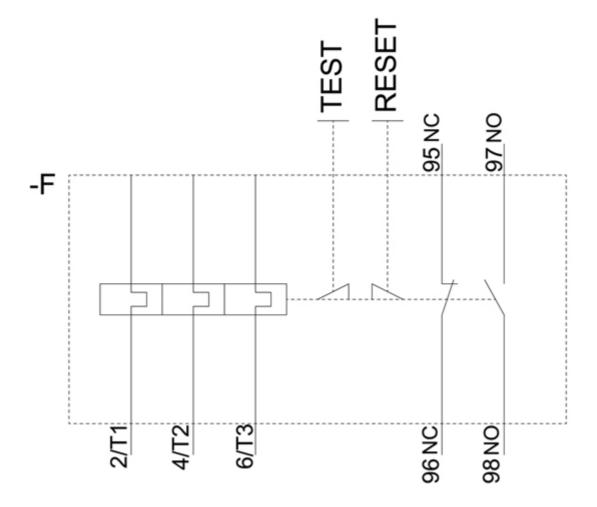




Confirmation

Further information





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