SIEMENS

Data sheet

3RB3036-1UB0



Overload relay 12.5...50 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			
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	1.8 W			
• per pole	0.6 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 protective separation				
 in networks with ungrounded 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 ungrounded star point between main and auxiliary circuit 	600 V			
 in networks with grounded star point 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			
thermal current	50 A			
reference code according to IEC 81346-2	F			
Substance Prohibitance (Date)	10/15/2014			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8			
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	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 10E
design of the overload release	electronic
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	50.4
at 480 V rated value	50 A
at 600 V rated value	50 A
contact rating of auxiliary contacts according to UL Short-circuit protection	B600 / R300
 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 coordination 1 required — with type of assignment 2 required 	gG: 200 A
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	99 mm
width	55 mm
depth	104 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
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)
type of connectable conductor cross-sections	
 for auxiliary contacts 	

aalid			1 1 (0	$E (1 mm^2) 2 \times (0 E) 2$	E mm ²)	
— solid	andod			5 4 mm²), 2x (0.5 2		
— solid or stra		a in a	$1x (0.5 \dots 4 \text{ mm}^2), 2x (0.5 \dots 2.5 \text{ mm}^2)$ $1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$			
	ded with core end process	sing	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)			
	for auxiliary contacts		1x (2t) 14), 2x (20 14)		
tightening torque						
	s with screw-type terminal		3 4.5 N·m			
	acts with screw-type term	inals	0.8 1.2 N·m			
design of screwdriver			Diameter 5 to 6 mm			
size of the screwdrive	•		Pozidriv PZ 2			
0	of the connection screw					
 for main contacts 			M6			
of the auxiliary and control contacts		M3				
Electrical Safety						
protection class IP on the front according to IEC 60529		IP20				
	touch protection on the front according to IEC 60529		finger	-safe, for vertical contac	t from the front	
Communication/ Protoc	col					
type of voltage supply	y via input/output link m	aster	No			
Electromagnetic compa	atibility					
conducted interference	ce					
 due to burst accord 	ording to IEC 61000-4-4		2 kV (power ports), 1 kV (sign	al ports) corresponds to de	gree of severity 3
 due to conductor 	r-earth surge according to	IEC 61000-4-5	2 kV (line to earth) correspond	Is to degree of severity 3	
 due to conductor 61000-4-5 	r-conductor surge accordi	ng to IEC	1 kV (line to line) corresponds	to degree of severity 3	
 due to high-frequ 4-6 	uency radiation according	to IEC 61000-	10 V i	n frequency range 0.15	to 80 MHz, modulation 80 °	% AM with 1 kHz
field-based interferen	ce according to IEC 610	00-4-3	10 V/r	n		
electrostatic discharg	e according to IEC 6100	0-4-2	6 kV c	contact discharge / 8 kV	air discharge	
Display						
display version for swite	ching status		Slide	switch		
Approvals Certificates						
General Product App	loval					
UK CA	EG-Konf.	()		Confirmation	U	EAC
	EG-Konf.	CCC Test Certificate	es	Confirmation	UL Marine / Shipping	EAC
UK CA	EG-Konf. For use in hazard-	Test Certificate Special Test Ce ate		Confirmation <u>Type Test Certificates/Test Report</u>	Marine / Shipping	ERC B B B B B B B B B B B B B B B B B B B
UK CA	EG-Konf. For use in hazard-	Special Test Ce		Type Test Certific-	Marine / Shipping	ERC ECC
UK EMV EMV	EG-Konf. For use in hazard-	Special Test Ce		<u>Type Test Certific-</u> ates/Test Report	ABS	EAC
EMV EMV EMV Marine / Shipping Marine / Shipping Excession Ex	EG-Konf. For use in hazard- ous locations	Special Test Ce ate iew/109813875 Brochures,) alog/product?mlfb= corder/default.aspx racteristics, FAQs	=3RB30: (?lang=e	type Test Certific- ates/Test Report other Confirmation	Environment Environmental Con- firmations	Image: Constraint of the second se

 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

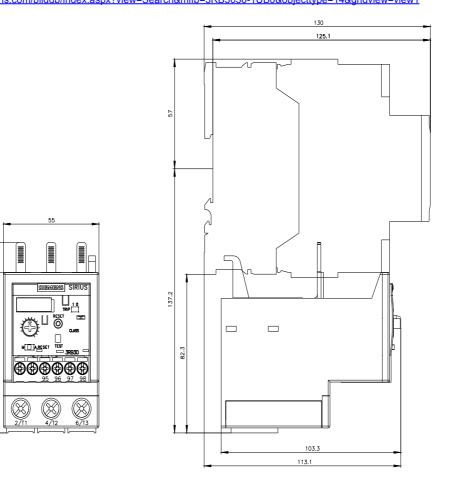
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-1UB0&lang=en

 Characteristic: Tripping characteristics, I²t, Let-through current

 https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UB0/char

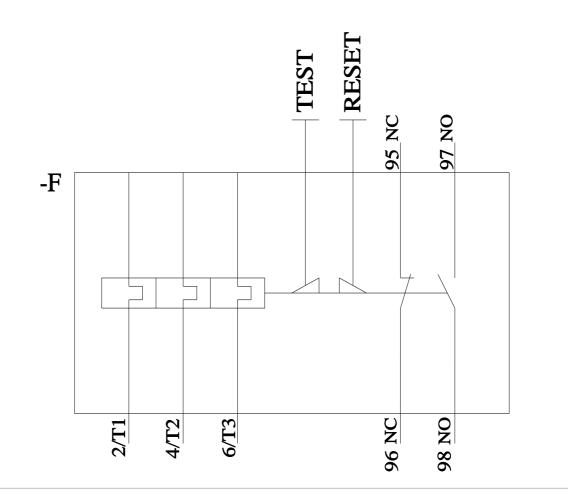
 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3036-1UB0&objecttype=14&gridview=view1



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83.3



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3/11/2024 🖸