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	\$2		
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 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	50 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 acc. to IEC 81346-2	F		
Substance Prohibitance (Date)	15.10.2014		
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	12.5 50 A		
operating voltage			

 rated value 	690 V		
operating frequency rated value	50 60 Hz		
operational current 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 • at 480 V rated value	50 A		
at 400 V rated value at 600 V rated value	50 A 50 A		
contact rating of auxiliary contacts according to UL	B600 / R300		
Short-circuit protection	500077000		
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 assignment 2 required	gG: 200 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 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)		

-	anded with core end proces	ssing	1x (1 35 mm²), 2x (1 25 mm²)			
	s for main contacts		2x (18 2), 1x (18 1)			
	e conductor cross-sectio	ons				
 for auxiliary co 	ontacts			0.5		
— solid			1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)			
— solid or s),5 4 mm²), 2x (0,5 2,5 mm²)		
 finely stranded with core end processing 			1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)			
	s for auxiliary contacts		1x (20 14), 2x (20 14)			
tightening torque						
	cts with screw-type termin		3 4.5 N·m			
	ontacts with screw-type ter	minals	0.8 1.2 N·m			
design of screwdriv			Diameter 5 to 6 mm			
size of the screwdr	-		Pozidriv PZ 2			
•	d of the connection scre	w				
 for main conta 			M6			
-	and control contacts		M3			
Safety related data						
_ •	on the front acc. to IEC		IP20			
touch protection or	n the front acc. to IEC 60	529	finger-safe, for vertical cont	act from the front		
Communication/ Pro	tocol					
type of voltage sup	oply via input/output link	master	No			
Electromagnetic con	npatibility					
conducted interfere	ence					
• due to burst ad	cc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
 due to conduct 	• due to conductor-earth surge acc. to IEC 61000-4-5		2 kV (line to earth) correspo	onds to degree of seve	rity 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-			10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz			
			10 V/m			
			6 kV contact discharge / 8 k	V air discharge		
Display	0		Ű	5		
display version for s	witching status		Slide switch			
Certificates/ approva	-					
					For use in hazard-	
General Product A	pproval			EMC	ous locations	
	CCC	(UL) u	EHC	RCM	KEx ATEX	
Declaration of Conformity	Test Certificates		Marine / Shipping			
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Cer</u> ates/Test Rep		Lloyd's Register urs	PRS	
Marine / Shipping			other			
RINA	RMRS	DNV-GL	<u>Confirmation</u>			

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=3RB3036-1UB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3036-1UB0

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

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

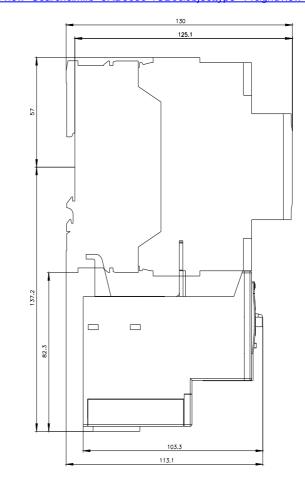
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RB3036-1UB0&lang=en

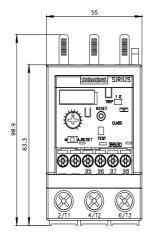
Characteristic: Tripping characteristics, I²t, Let-through current

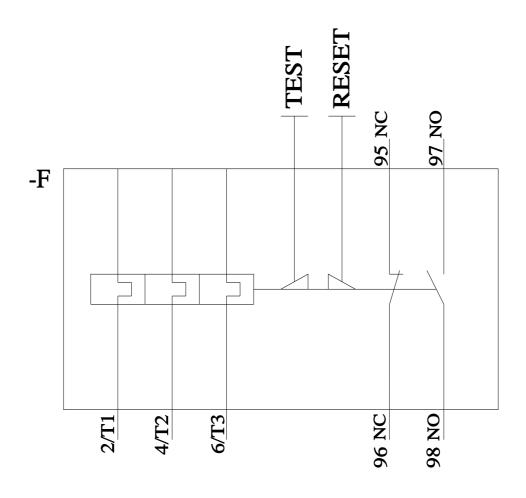
https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-1UB0/char

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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