SIEMENS

Data sheet

3RB3036-2UX1

OVERLOAD RELAY 12.5...50 A FOR MOTOR PROTECTION SIZE S2, CLASS 20E STAND-ALONE INSTALLATION MAIN CIRCUIT: STR.-THR. TRANSF. AUX. CIRCUIT: SPRING-T. TERM. MANUAL-AUTOMATIC-RESET



Figure similar

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	0.1 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	IP20			
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles			
Thermal current	50 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			
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-	12.5 50 A			
dependent overload release				
Operating voltage	690 V			
 rated value 	090 V			
	000 \/			
• at AC-3 rated value maximum	690 V			
Operating frequency rated value	50 60 Hz			
Operating frequency rated value Operating current rated value	50 60 Hz 50 A			
Operating frequency rated value	50 60 Hz			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz	50 60 Hz 50 A			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit	50 60 Hz 50 A 7.5 22 kW			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch	50 60 Hz 50 A			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts	50 60 Hz 50 A 7.5 22 kW			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts	50 60 Hz 50 A 7.5 22 kW integrated			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts — Note	50 60 Hz 50 A 7.5 22 kW			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts — Note Number of NO contacts	50 60 Hz 50 A 7.5 22 kW integrated 1 for contactor disconnection			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts — Note Number of NO contacts • for auxiliary contacts	50 60 Hz 50 A 7.5 22 kW integrated 1 for contactor disconnection 1			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts — Note Number of NO contacts • for auxiliary contacts — Note	50 60 Hz 50 A 7.5 22 kW integrated 1 for contactor disconnection			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts Note Number of NO contacts • for auxiliary contacts Note Number of CO contacts	50 60 Hz 50 A 7.5 22 kW integrated 1 for contactor disconnection 1 for message "tripped"			
Operating frequency rated value Operating current rated value Operating power for three-phase motors at 400 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts • for auxiliary contacts — Note Number of NO contacts • for auxiliary contacts — Note	50 60 Hz 50 A 7.5 22 kW integrated 1 for contactor disconnection 1			

4 A
4 A
4 A
4 A
3 A
2 A
0.55 A
0.3 A
0.3 A
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	50 A		
• at 600 V rated value	50 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	
— 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
Mounting type	stand-alone installation
Height	81 mm
Width	55 mm
Depth	109 mm
Required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 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 circuit 	Yes			
Type of electrical connection				
● for main current circuit	straight-through transformers			
 for auxiliary and control current circuit 	spring-loaded terminals			
Arrangement of electrical connectors for main current circuit	Top and bottom			
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 processing 	2x (0.25 1.5 mm²)			
 at AWG conductors for auxiliary contacts 	1x (24 16), 2x (24 16)			
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 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

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General Produc	t Approval			For use in hazardous locations	Declaration of Conformity
	(SA)		EHC	ATEX	EG-Konf.
Test	Marine / Shippi	ng			
Certificates					
<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	Lloyd's Register	PRS	RINA	RMRS
Marine /	other				
Shipping					
DNV-GL	Environmental Confirmations	Confirmation			

urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

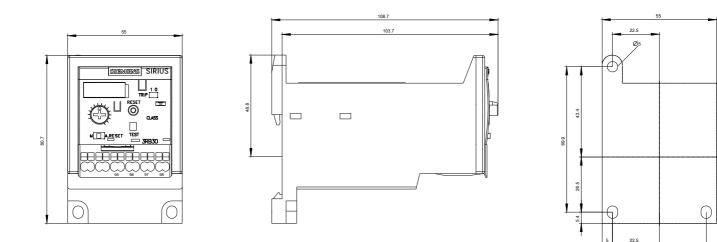
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3036-2UX1

Cax online generator

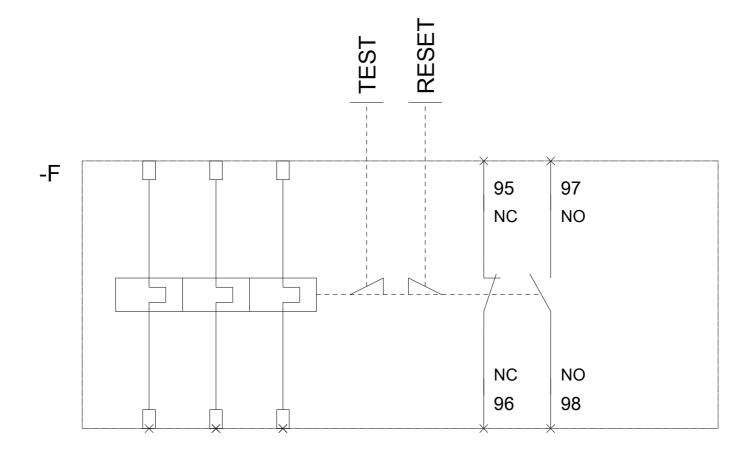
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3036-2UX1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2UX1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3036-2UX1&lang=en



45



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