SIEMENS

Data sheet

3RB3036-1UW1

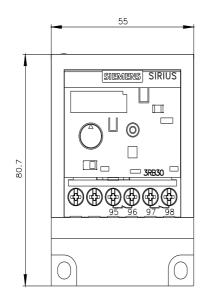


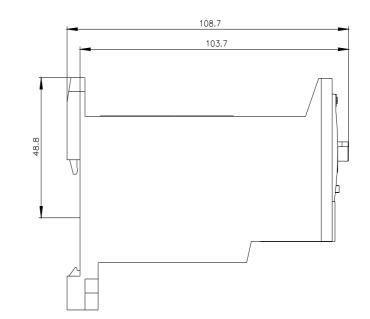
Overload relay 12.5...50 A Electronic For motor protection Size S2, Class 10E Stand-alone installation Main circuit: Straight-through transformer Auxiliary circuit: Screw Manual-Automatic-Reset

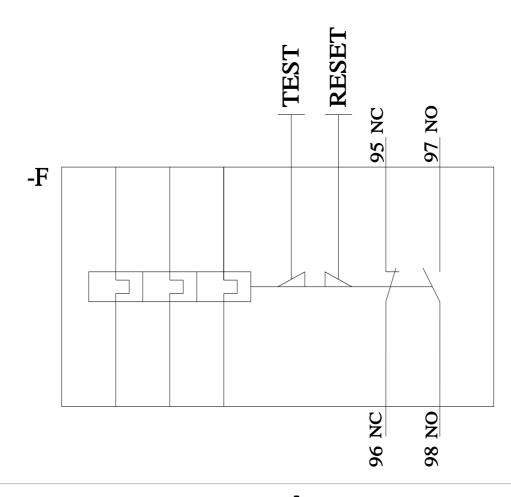
product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot operating state	0.1 W
• per pole	0.03 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 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
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 30 kW 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	3A		
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 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 required 	fuse gG: 6 A		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	stand-alone installation		
height	81 mm		
width	55 mm		
depth	109 mm		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection			
• for main current circuit	straight-through transformers		
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 or stranded	1x (1 50 mm²), 2x (1 35 mm²)		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)		
— solid or stranded	1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²)		
— finely stranded with core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)		
for AWG cables for auxiliary contacts	1x (20 14), 2x (20 14)		
tightening torque			

 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						
 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 IE	C 60529	finger-safe, for vert	ical contact from t	he front		
Communication/ Protoco	l						
type of voltage supply v	/ia input/output link m	aster	No				
electromagnetic compati	bility						
conducted interference							
 due to burst accord 	2 kV (power ports),	, 1 kV (signal ports	s) corresponds to a	degree of severity 3			
 due to conductor-e 	arth surge according to	IEC 61000-4-5	2 kV (line to earth)	corresponds to de	egree of severity 3		
 due to conductor-c 61000-4-5 	conductor surge accordi	ng to IEC	1 kV (line to line) co	orresponds to deg	ree of severity 3		
 due to high-frequer 4-6 	 due to high-frequency radiation according to IEC 61000- 4-6 			ange 0.15 to 80 N	1Hz, modulation 80	0 % AM with 1 kHz	
field-based interference	according to IEC 610	00-4-3	10 V/m				
electrostatic discharge	according to IEC 6100	00-4-2	6 kV contact discha	arge / 8 kV air disc	charge		
Display							
display version for switch	ing status		Slide switch				
pprovals Certificates							
General Product Appro	val						
UK CA	EG-Konf.					t H L	
EMV	For use in hazard- ous locations	Test Certificate	95	Ma	rine / Shipping		
RCM	ATEX ATEX	<u>Special Test Ce</u> <u>ate</u>	r <u>tific- Type Test</u> ates/Test		ABS		
Marine / Shipping			other	Env	vironment		
Llovd's Register us	PRS	RINA	Confirm	nation <u>En</u>	vironmental Con- firmations		
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