SIEMENS

Data sheet

3RB3046-2XX1

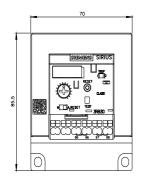


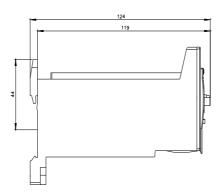
Overload relay 32...115 A Electronic For motor protection Size S3, Class 20E Stand-alone installation Main circuit: Straight-through transformer Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

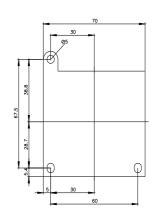
product brand name	SIRIUS
product designation	solid-state overload relay
	3RB3
product type designation General technical data	
	S3
size of overload relay	 S3
size of contactor can be combined company-specific	
power loss [W] for rated value of the current at AC in hot operating state	0.6 W
• per pole	0.2 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 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	8g / 11 ms
according 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	115 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 according to IEC 81346-2	F
Substance Prohibitance (Date)	03/01/2017
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	32 115 A
operating voltage	
rated value	1 000 V
at AC-3e rated value maximum	1 000 V
operating frequency rated value	50 60 Hz

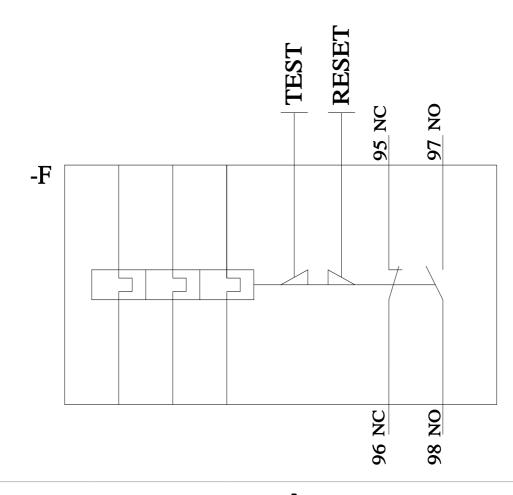
operational current rated value	115 A
operational current at AC-3e at 400 V rated value	115 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	18.5 55 kW
 for AC motors at 500 V at 50 Hz 	22 75 kW
 for AC motors at 690 V at 50 Hz 	30 90 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
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 20E
design of the overload release	electronic
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	115 A
• at 600 V rated value	115 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: 315 A
— with type of assignment 2 required	gG: 315 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	106 mm
width	70 mm
depth	124 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	spring-loaded terminals
arrangement of electrical connectors for main current	Top and bottom
circuit type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
— solid or stranded	2x (0.25 1.5 mm ²)
 — finely stranded with core end processing 	2x (0,25 1,5 mm ²)
 — finely stranded with core end processing — finely stranded without core end processing 	2x (0.25 1.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (0.25 1.5 mm ⁻) 2x (24 16)
design of screwdriver shaft	Diameter 5 to 6 mm
acorgii or ociewariver olidit	

size of the screwdriver	tip		Pozidriv PZ 2			
fety related data					_	
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		IP20				
•	•	60529	finger-safe, for vertical contac	t from the front		
ommunication/ Protoco					_	
type of voltage supply via input/output link master			No			
ectromagnetic compat	ibility					
conducted interference)					
 due to burst according to IEC 61000-4-4 			2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
 due to conductor-earth surge according to IEC 61000-4-5 		IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3			
 due to conductor-conductor surge according to IEC 61000-4-5 		1 kV (line to line) corresponds to degree of severity 3				
 due to high-frequency radiation according to IEC 61000- 4-6 		10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz				
field-based interference according to IEC 61000-4-3		10 V/m				
electrostatic discharge according to IEC 61000-4-2			6 kV contact discharge / 8 kV	air discharge		
splay						
display version for switch	ning status		Slide switch			
ertificates/ approvals						
General Product Appro	oval				EMC	
	<u> </u>			LHL	RCM	
For use in hazard- ous locations	Declaration of Confor	mity	Test Certificates		Marine / Shipping	
K ATEX	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	Lloyds Register us	
ATEX	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report		Hoyds Register us	
Marine / Shipping	EG-Konf.				Lloyds Register urs	
PRS	EG-Konf.		other		Llovds Register urs	
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