

Reference: 3RB2046-1EX1

OVERLOAD RELAY 25...100 A FOR
MOTOR PROTECTION SIZE S3, CLASS 10
STAND-ALONE INSTALLATION MAIN
CIRCUIT: THROUGH TRANSF. AUX.
CIRCUIT: SPRINGLOAD. TERM. MANUAL-
AUTOMATIC-RESET

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product brand name	SIRIUS
Product designation	solid-state overload relay
General technical data:	
Size of contactor can be combined company-specific	S3
Power loss [W] total typical	0.05 W
Insulation voltage	
with degree of pollution 3 rated value	1 000 V
Surge voltage resistance rated value	8 kV
Protection class IP	
on the front	IP20
Shock resistance	15g / 11 ms
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking acc. to DIN EN 81346-2	F
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
Relative humidity during operation	100 %
Main circuit:	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	25 ... 100 A

Operating voltage	
at AC-3 rated value maximum	1 000 V
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	1
Number of NO contacts	
for auxiliary contacts	1
Number of CO contacts	
for auxiliary contacts	0
Operating 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
Operating 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
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A
Installation/ mounting/ dimensions:	
Mounting position	any
Mounting type	stand-alone installation
Height	106 mm
Witd>	70 mm
Depth	124 mm
Required spacing	
with side-by-side mounting	
— forwards	0 m
— Backwards	0 m
— upwards	0 m

— downwards	0 m
— at the side	0 m
for grounded parts	
— forwards	0 m
— Backwards	0 m
— upwards	0 m
— at the side	6 mm
— downwards	0 m
for live parts	
— forwards	0 m
— Backwards	0 m
— upwards	0 m
— downwards	0 m
— at the side	6 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
Type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 ... 1.5 mm ²)
— finely stranded with core end processing	2x (0.25 ... 1.5 mm ²)
at AWG conductors for auxiliary contacts	2x (24 ... 16)
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