



Reference: 3RB2036-2QW1

## OVERLOAD RELAY 6...25 A FOR MOTOR PROTECTION SIZE S2, CLASS 20 STAND-ALONE INSTALLATION MAIN CIRCUIT: THROUGH TRANSF. AUX. CIRCUIT: SCREW CONNECTION 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	52
Power loss [W] total typical	0.05 W
Insulation voltage	
with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 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	6 25 A
Operating voltage	
at AC-3 rated value maximum	690 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 20E
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	92 mm
Witd>	55 mm
Depth	109 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	

- forwards0 m- Backwards0 m- upwards0 m- at the side6 mm- downwards0 mfor live parts0 m- forwards0 m- forwards0 m- backwards0 m- at the side0 m- upwards0 m- downwards0 m- downwards0 m- at the side0 m- at the side0 m- at the side6 mmConnections/Terminals:VProduct functionYesfor auxiliary and control circuitYesfor auxiliary and control circuitscrew-type terminalsfor auxiliary contacts0.54 mm², 2x (0.51.5 mm²)auxiliary contactsscrew-type terminalsfor auxiliary contactsscrew-type terminalsfor au		
- upwards     0 m       - at the side     6 mm       - downwards     0 m       for live parts     0 m       - forwards     0 m       - backwards     0 m       - upwards     0 m       - upwards     0 m       - upwards     0 m       - downwards     0 m       - at the side     6 mm       Connections/Terminals:     5       Product function     Yes       for auxiliary and control current circuit     straight-through transformers       for auxiliary and control current circuit     screw-type terminals       Type of connectable conductor cross-sections     1       - solid	— forwards	0 m
- at the side6 mm- downwards0 mfor live parts0 m- forwards0 m- Backwards0 m- upwards0 m- ubwards0 m- downwards0 m- downwards0 m- downwards0 m- downwards0 m- downwards0 m- at the side6 mmConnections/Terminals:YesProduct functionYesType of electrical connectionYesfor auxiliary and control circuitstraight-through transformersfor auxiliary and control circuitscrew-type terminalsType of connectable conductor cross-sectionsScrew-type terminalsfor auxiliary contacts0.5 4 mm², 2x (0.5 2.5 mm²)- solid0.5 4 mm², 2x (0.5 1.5 mm²)at AVG conductors for auxiliary contacts2x (20 14)Electromagnetic compatibility:10 V/m	— Backwards	0 m
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for live parts   -     for live parts   0 m     - forwards   0 m     - Backwards   0 m     - upwards   0 m     - downwards   0 m     - downwards   0 m     - at the side   6 mm     Connections/Terminals:   -     Product function   -     for main current circuit   Yes     for auxiliary and control circuit   screw-type terminals     for auxiliary and control current circuit   screw-type terminals     for auxiliary and control current circuit   screw-type terminals     for auxiliary contacts   -     - solid   0.5 4 mm², 2x (0.5 2.5 mm²)     - finely stranded with core end processing   0.5 2.5 mm², 2x (0.5 1.5 mm²)     at AWG conductors for auxiliary contacts   2x (20 14)     Electromagnetic compatibility:   -     Fieldbound parasitic coupling acc. to IEC 61000-4-3   10 V/m	— at the side	6 mm
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Connections/Terminals:Product functionremovable terminal for auxiliary and control circuitYesType of electrical connectionstraight-through transformersfor main current circuitstraight-through transformersfor auxiliary and control current circuitscrew-type terminalsType of connectable conductor cross-sections-for auxiliary contacts0.5 4 mm², 2x (0.5 2.5 mm²)- solid0.5 2.5 mm², 2x (0.5 1.5 mm²)at AWG conductors for auxiliary contacts2x (20 14)Electromagnetic compatibility:10 V/m	— downwards	0 m
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For main current circuitstraight-through transformersfor auxiliary and control current circuitscrew-type terminalsType of connectable conductor cross-sections-for auxiliary contacts-for auxiliary contacts0.5 4 mm², 2x (0.5 2.5 mm²)- solid0.5 2.5 mm², 2x (0.5 1.5 mm²)at AWG conductors for auxiliary contacts2x (20 14)Electromagnetic compatibility:10 V/m	removable terminal for auxiliary and control circuit	Yes
Image: A strep in a stre	Type of electrical connection	
Type of connectable conductor cross-sections   Image: Content of the section of th	for main current circuit	straight-through transformers
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- solid   0.5 4 mm², 2x (0.5 2.5 mm²)     - finely stranded with core end processing   0.5 2.5 mm², 2x (0.5 1.5 mm²)     at AWG conductors for auxiliary contacts   2x (20 14)     Electromagnetic compatibility:   10 V/m	Type of connectable conductor cross-sections	
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at AWG conductors for auxiliary contacts 2x (20 14)   Electromagnetic compatibility: 10 V/m	— solid	0.5 4 mm², 2x (0.5 2.5 mm²)
Electromagnetic compatibility: Field-bound parasitic coupling acc. to IEC 61000-4-3 10 V/m	- finely stranded with core end processing	0.5 2.5 mm², 2x (0.5 1.5 mm²)
Field-bound parasitic coupling acc. to IEC 61000-4-3 10 V/m	at AWG conductors for auxiliary contacts	2x (20 14)
	Electromagnetic compatibility:	
Electrostatic discharge acc. to IEC 61000-4-2   6 kV contact discharge / 8 kV air discharge	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