

Overload relay 3...12 A for motor protection Size S00, Class 10E  
 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw  
 Manual-Automatic-Reset



Product brand name	SIRIUS
Product designation	solid-state overload relay
Product type designation	3RB3
<b>General technical data</b>	
Size of overload relay	S00
Size of contactor can be combined company-specific	S00
Power loss [W] total typical	0.6 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	
<ul style="list-style-type: none"> <li>• in networks with grounded star point between auxiliary and auxiliary circuit</li> <li>• in networks with grounded star point between auxiliary and auxiliary circuit</li> <li>• in networks with grounded star point between main and auxiliary circuit</li> <li>• in networks with grounded star point between main and auxiliary circuit</li> </ul>	<p>300 V</p> <p>300 V</p> <p>600 V</p> <p>690 V</p>
Protection class IP	

<ul style="list-style-type: none"> <li>• on the front</li> <li>• of the terminal</li> </ul>	IP20 IP20
<b>Shock resistance</b> <ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-27</li> </ul>	15g / 11 ms 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
<b>Thermal current</b>	12 A
<b>Recovery time</b> <ul style="list-style-type: none"> <li>• after overload trip with automatic reset typical</li> <li>• after overload trip with remote-reset</li> <li>• after overload trip with manual reset</li> </ul>	3 min 0 min 0 min
<b>Type of protection</b>	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001
<b>Protection against electrical shock</b>	finger-safe
<b>Reference code acc. to DIN EN 81346-2</b>	F

### Ambient conditions

<b>Installation altitude at height above sea level</b> <ul style="list-style-type: none"> <li>• maximum</li> </ul>	2 000 m
<b>Ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-25 ... +60 °C -40 ... +80 °C -40 ... +80 °C
<b>Temperature compensation</b>	-25 ... +60 °C
Relative humidity during operation	10 ... 95 %

### Main circuit

<b>Number of poles for main current circuit</b>	3
<b>Adjustable pick-up value current of the current-dependent overload release</b>	3 ... 12 A
<b>Operating voltage</b> <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>	690 V 690 V
<b>Operating frequency rated value</b>	50 ... 60 Hz
<b>Operating current rated value</b>	12 A
<b>Operating power</b> <ul style="list-style-type: none"> <li>• for three-phase motors at 400 V at 50 Hz</li> <li>• for AC motors at 500 V at 50 Hz</li> <li>• for AC motors at 690 V at 50 Hz</li> </ul>	1.5 ... 5.5 kW 1.5 ... 5.5 kW 2.2 ... 7.5 kW

### Auxiliary circuit

<b>Design of the auxiliary switch</b>	integrated
<b>Number of NC contacts for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• Note</li> </ul>	1 for contactor disconnection
<b>Number of NO contacts for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• Note</li> </ul>	1 for message "tripped"