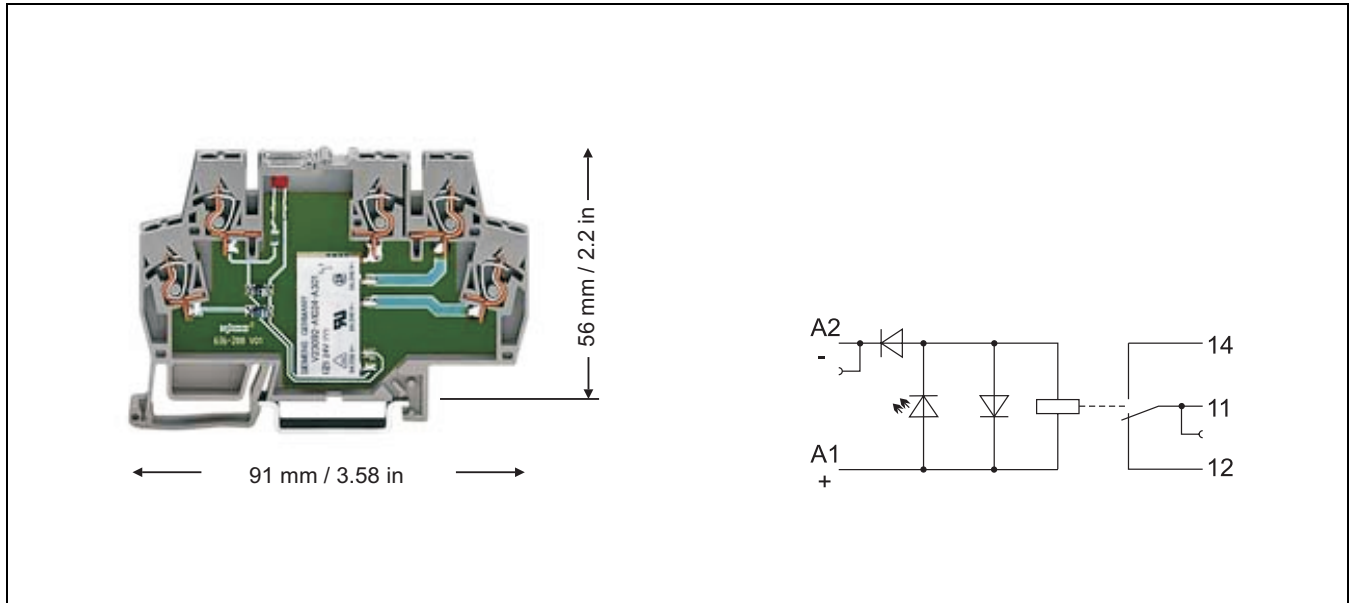


# Electronic Terminal Block with Miniature Switching Relay

1/2

1 changeover contact

Data sheet



Description	Item-No.	Pack.-unit pcs																																																
Switching relay terminal block	859-302	1																																																
<ul style="list-style-type: none"> <li>Switching relay terminal block with miniature switching relay 1 changeover contact for medium switching powers.</li> <li>Safe electrical isolation meets DIN VDE 0140, DIN EN 61140.</li> <li>Mounting on DIN 35 rail.</li> </ul> <p><b>DC-Load limiting value graph</b></p> <p><b>Note:</b> Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts !</p>	<p><b>Technical Data</b></p> <table border="1"> <tr><td>Contact material</td><td>AgSnO<sub>2</sub></td></tr> <tr><td>Input nominal voltage U<sub>N</sub></td><td>DC 5 V</td></tr> <tr><td>Input voltage range</td><td>U<sub>N</sub> -20 %...+40 %</td></tr> <tr><td>Input nominal current I<sub>N</sub> (coil 20 °C)</td><td>31 mA</td></tr> <tr><td>Max. switching voltage</td><td>AC 250 V</td></tr> <tr><td>Max. continuous current (terminal blocks in a row)</td><td>5 A</td></tr> <tr><td>Max. switching power (resistive)</td><td>AC 1250 VA</td></tr> <tr><td>Max. switching power (resistive)</td><td>DC see load limiting value graph</td></tr> <tr><td>Making capacity</td><td>10 A bei max. 4 s and 10 % relative cyclic duration factor</td></tr> <tr><td>Recommended min. load</td><td>≥ 100 mA / AC/DC 12 V</td></tr> <tr><td>Max. number of switching operations with/without load</td><td>6 min<sup>-1</sup> / 20 s<sup>-1</sup></td></tr> <tr><td>Operating power</td><td>&lt; 320 mW</td></tr> <tr><td>Pull-in/dropout/bounce time t<sub>TP</sub></td><td>5 ms / 6 ms / 5 ms</td></tr> <tr><td>Operation at normal rating</td><td>100 % continuous duty</td></tr> <tr><td>Dielectric strength contact/coil</td><td>4 kV</td></tr> <tr><td>Surge voltage strength contact/coil (1.2/50 µs)</td><td>6 kV</td></tr> <tr><td>Open contact</td><td>1 kV</td></tr> <tr><td>Nominal voltage acc. to VDE 0110 Part1/ 4.97</td><td></td></tr> <tr><td>IEC 60664-1</td><td>250 V / 4 kV / 3</td></tr> <tr><td>Mechanical life</td><td>2 x 10<sup>7</sup> switching operations</td></tr> <tr><td>at max. load (resistive)</td><td>3 x 10<sup>6</sup> switching operations</td></tr> <tr><td>Ambient operating temperature at U<sub>N</sub></td><td>-25 °C...+50 °C</td></tr> <tr><td>at 1.2 x U<sub>N</sub></td><td>-25 °C...+40 °C</td></tr> <tr><td>Storage temperature</td><td>-40 °C...+70 °C</td></tr> </table>		Contact material	AgSnO <sub>2</sub>	Input nominal voltage U <sub>N</sub>	DC 5 V	Input voltage range	U <sub>N</sub> -20 %...+40 %	Input nominal current I <sub>N</sub> (coil 20 °C)	31 mA	Max. switching voltage	AC 250 V	Max. continuous current (terminal blocks in a row)	5 A	Max. switching power (resistive)	AC 1250 VA	Max. switching power (resistive)	DC see load limiting value graph	Making capacity	10 A bei max. 4 s and 10 % relative cyclic duration factor	Recommended min. load	≥ 100 mA / AC/DC 12 V	Max. number of switching operations with/without load	6 min <sup>-1</sup> / 20 s <sup>-1</sup>	Operating power	< 320 mW	Pull-in/dropout/bounce time t <sub>TP</sub>	5 ms / 6 ms / 5 ms	Operation at normal rating	100 % continuous duty	Dielectric strength contact/coil	4 kV	Surge voltage strength contact/coil (1.2/50 µs)	6 kV	Open contact	1 kV	Nominal voltage acc. to VDE 0110 Part1/ 4.97		IEC 60664-1	250 V / 4 kV / 3	Mechanical life	2 x 10 <sup>7</sup> switching operations	at max. load (resistive)	3 x 10 <sup>6</sup> switching operations	Ambient operating temperature at U <sub>N</sub>	-25 °C...+50 °C	at 1.2 x U <sub>N</sub>	-25 °C...+40 °C	Storage temperature	-40 °C...+70 °C
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# Electronic Terminal Block with Miniature Switching Relay

2/2

1 changeover contact

Data sheet

	Terminal block width	6 mm / 0.236 in		
	Wire connection	CAGE CLAMP®		
		0.08-2.5 mm <sup>2</sup> / AWG 28-14		
	Stripped length	5-6 mm / 0.22 in		
	Standards / prescriptions	VDE 0435 Part 201, DIN EN 61810-1 VDE 0140, DIN EN 61140		
	Approvals	cULus UL508 / CSA22.2 E175199		
		<b>CB scheme</b>		
		IEC 60947-1 / IEC 60947-5-1 DEMKO DK-7574		
		AC15	3 A	AC 250 V
		DC13	0.5 A	DC 24 V
	Accessories			
	End and intermediate plate	859-525		
	Comb type jumper bar 2-way	859-402		
		3-way	859-403	
		4-way	859-404	
	5-way	859-405		
	10-way	859-410		
Test pin 1 mm Ø	859-500			