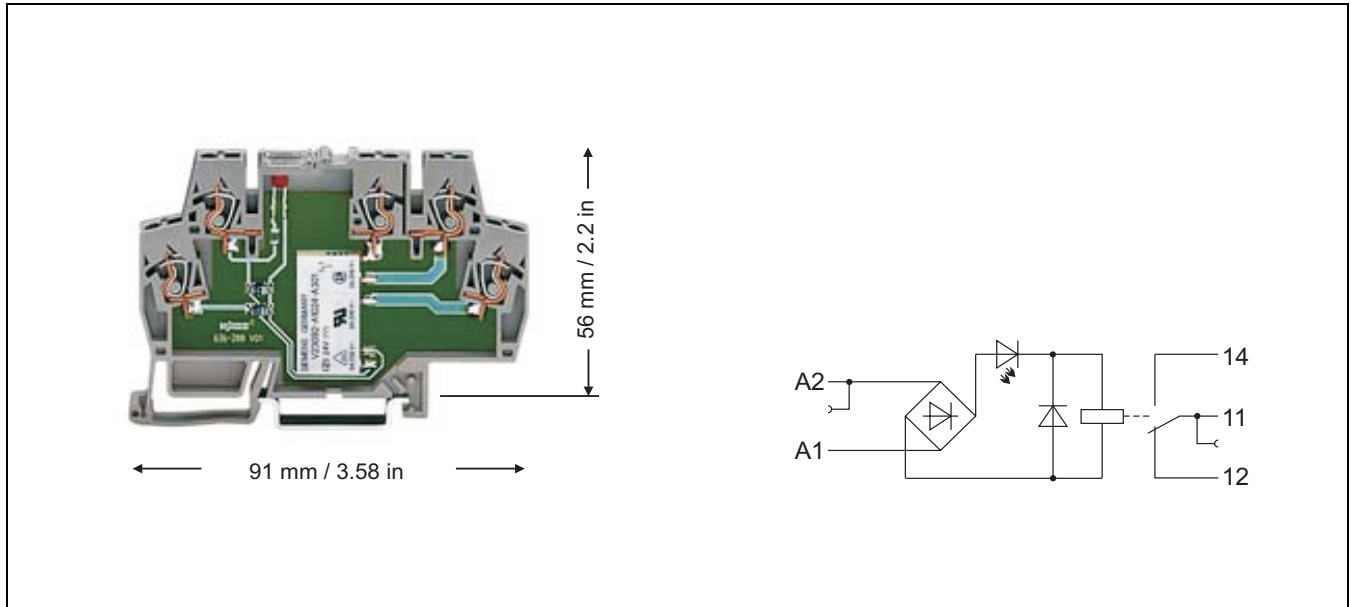


# Electronic Terminal Block with Miniature Switching Relay

1/2

1 changeover contact

Data sheet



Description	Item-No.	Pack.-unit pcs																																																								
Switching relay terminal block	859-357	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>AC 115 V / DC 110 V*</td> </tr> <tr> <td></td> <td>* cUL<sub>US</sub> ratings only for input nominal voltage U<sub>N</sub> AC 115 V</td> </tr> <tr> <td>Input voltage range</td> <td>U<sub>N</sub> -15 %...+10 %</td> </tr> <tr> <td>Current input at U<sub>N</sub> (coil 20 °C)</td> <td>3.5 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>(resistive)</td> <td>DC see load limiting value graph</td> </tr> <tr> <td>Making capacity</td> <td>10 A at 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; 420 mW</td> </tr> <tr> <td>Pull-in/dropout/bounce time t<sub>typ</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 colspan="2"><b>Dielectric strength</b></td> </tr> <tr> <td>contact/coil</td> <td>4 kV</td> </tr> <tr> <td colspan="2"><b>Surge voltage strength</b></td> </tr> <tr> <td>contact/coil (1.2/50 μs)</td> <td>6 kV</td> </tr> <tr> <td>Open contact</td> <td>1 kV</td> </tr> <tr> <td colspan="2"><b>Nominal voltage acc. to VDE 0110 Part1/ 4.97</b></td> </tr> <tr> <td>IEC 60664-1</td> <td>250 V / 4 kV / 3</td> </tr> <tr> <td>Mechanical life</td> <td>5 x 10<sup>6</sup> switching operations</td> </tr> <tr> <td>at max. load (resistive)</td> <td>3 x 10<sup>4</sup> switching operations</td> </tr> <tr> <td colspan="2"><b>Ambient operating temperature</b></td> </tr> <tr> <td>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>	AC 115 V / DC 110 V*		* cUL <sub>US</sub> ratings only for input nominal voltage U <sub>N</sub> AC 115 V	Input voltage range	U <sub>N</sub> -15 %...+10 %	Current input at U <sub>N</sub> (coil 20 °C)	3.5 mA	Max. switching voltage	AC 250 V	Max. continuous current (terminal blocks in a row)	5 A	Max. switching power (resistive)	AC 1250 VA	(resistive)	DC see load limiting value graph	Making capacity	10 A at 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	< 420 mW	Pull-in/dropout/bounce time t <sub>typ</sub>	5 ms / 6 ms / 5 ms	Operation at normal rating	100 % continuous duty	<b>Dielectric strength</b>		contact/coil	4 kV	<b>Surge voltage strength</b>		contact/coil (1.2/50 μs)	6 kV	Open contact	1 kV	<b>Nominal voltage acc. to VDE 0110 Part1/ 4.97</b>		IEC 60664-1	250 V / 4 kV / 3	Mechanical life	5 x 10 <sup>6</sup> switching operations	at max. load (resistive)	3 x 10 <sup>4</sup> switching operations	<b>Ambient operating temperature</b>		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

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	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			