

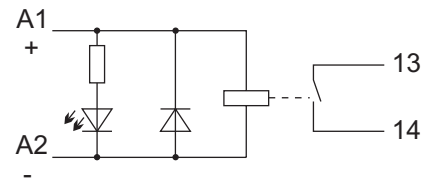
Pluggable Module - Switching Relay

Front-entry , 1 make contact

Data sheet



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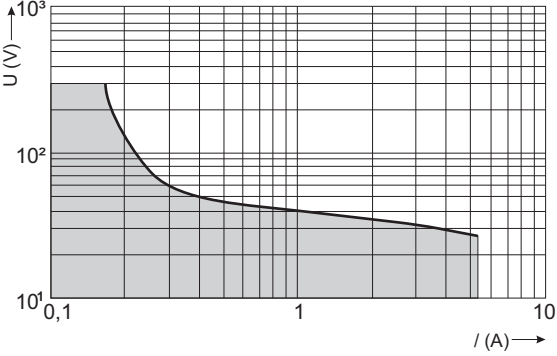
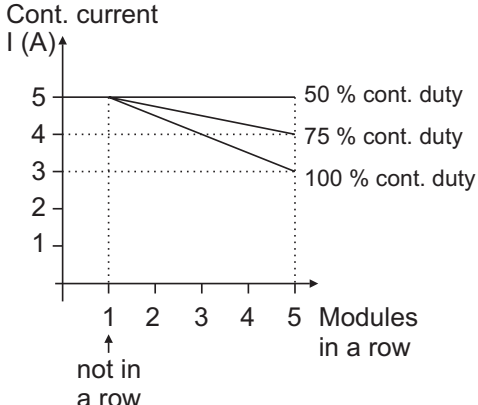


Description	Item-No.	Pack.-unit pcs																																							
Switching relay for medium switching power	286-364/004-000	1																																							
<ul style="list-style-type: none"> Relay module with miniature switching relay 1 make contact. Extended input voltage and temperature range for railway applications. Installation on terminal block for pluggable module. <p>The relay modules meet the requirements for an extended input voltage and temperature range in accordance with DIN EN 50155 / VDE 0115 part 200, "Railway applications. Electronical traction equipment". They can be used on vehicles operated with alternating current having a supply from the catenary via a transformer with battery charger and battery. The constant deviation from the operating voltage can, in this case, vary between -30 % and +25 %.</p> <p>The temperature range extended to 70 °C corresponds to the maximum air temperature range in inner rooms of vehicles and housings located unprotected in the open air.</p>	<p>Technical Data</p> <table border="1"> <tr><td>Contact material</td><td>AgSnO₂</td></tr> <tr><td>Input nominal voltage U_N</td><td>DC 24 V</td></tr> <tr><td>Input voltage range</td><td>U_N -30 %...+25 %</td></tr> <tr><td>Current input at U_N (coil 20 °C)</td><td>10 mA</td></tr> <tr><td>Max. switching voltage</td><td>AC 250 V</td></tr> <tr><td>Max. continuous current</td><td>5 A modules not in a row 3 A modules in a row (see diagram)</td></tr> <tr><td>Max. breaking power (resistive)</td><td>AC 1250 VA</td></tr> <tr><td>(resistive)</td><td>DC see load limiting value graph</td></tr> <tr><td>Recommended min. load</td><td>≥100 mA / AC/DC 12 V</td></tr> <tr><td>Pull-in/operating power</td><td>140 mW / 280 mW</td></tr> <tr><td>Pull-in/dropout/bounce time_{typ}</td><td>5 ms / 4 ms / 5 ms</td></tr> <tr><td>Operating at normal rating</td><td>100 % continuous duty</td></tr> <tr><td>Dielectric strength contact/ coil</td><td>2.5 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 at max.load (resistive)</td><td>5 x 10⁶ switching operations 5 x 10⁴ switching operations</td></tr> <tr><td>Ambient operating temperature</td><td>-25 °C...+70 °C</td></tr> <tr><td>Storage temperature</td><td>-40 °C...+70 °C</td></tr> <tr><td>Module dimensions (W x H)</td><td>(10 x 82,5*) mm / (0.394 x 3.25*) in * from upper edge of DIN 35 rail</td></tr> </table>	Contact material	AgSnO ₂	Input nominal voltage U _N	DC 24 V	Input voltage range	U _N -30 %...+25 %	Current input at U _N (coil 20 °C)	10 mA	Max. switching voltage	AC 250 V	Max. continuous current	5 A modules not in a row 3 A modules in a row (see diagram)	Max. breaking power (resistive)	AC 1250 VA	(resistive)	DC see load limiting value graph	Recommended min. load	≥100 mA / AC/DC 12 V	Pull-in/operating power	140 mW / 280 mW	Pull-in/dropout/bounce time _{typ}	5 ms / 4 ms / 5 ms	Operating at normal rating	100 % continuous duty	Dielectric strength contact/ coil	2.5 kV	open contact	1 kV	Nominal voltage acc. to VDE 0110 / Part1/ 4.97		IEC 60664-1	250 V / 4 kV / 3	Mechanical life at max.load (resistive)	5 x 10 ⁶ switching operations 5 x 10 ⁴ switching operations	Ambient operating temperature	-25 °C...+70 °C	Storage temperature	-40 °C...+70 °C	Module dimensions (W x H)	(10 x 82,5*) mm / (0.394 x 3.25*) in * from upper edge of DIN 35 rail
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<p>Load limiting value graph</p>  <p>Power diagram</p>  <p>Note: Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts!</p>	<p>Standards / prescriptions</p> <ul style="list-style-type: none"> DIN VDE 0115 Part 200 DIN VDE 0160 and IEC 60255 DIN VDE 0435 (corresponding parts) DIN EN 50155 <p>Accessories</p> <ul style="list-style-type: none"> Terminal block: 280-608 Dimensions (W x D): (12 x 73) mm / (0.472 x 2.874) in
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