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## High Voltage Relay **RL 42-H**

When voltages of up to 10,000 VAC must be switched in combination with high currents, suitable switching components are difficult to realize. To address these challenges, SPS electronic has developed specialized high-voltage relays.

In addition to reliable switching of high voltages and currents, these relays are capable of handling very low signal levels in the millivolt and milliampere range. In combined safety and functional test systems, precise resistance measurements in

the milliohm range are often required, placing extremely high demands on switching contact quality.

Designed for industrial applications, the relays ensure long service life and dependable performance. Proven electromechanical relay technology makes them a robust and reliable solution for system integration and control cabinet applications, particularly in safety and functional testing of electrotechnical products.

		High Voltage Relay RL 42-H
<b>Contacts</b>		double pole double throw
<b>Field Coil</b>	Coil Voltage	24 VDC (5 °C - 55 °C   41 °F - 131 °F)
	Coil Current	0.20 A (20 °C   68 °F)
<b>Coil Resistance</b>		115 Ω (20 °C   68 °F)
<b>Connections</b>		Free cable ends 2 m   6.6 ft
<b>Switching Voltage / Capacity</b>		For applications 10000 VAC / max. 10000 VA (ohmic load)
<b>Test Voltage</b>	Contact / Field Coil	25000 VDC
	Contact	25000 VDC
	Isolating Voltage	10000 VAC
<b>Switching Current</b>		max. 10 AAC
<b>Continuous Current</b>		max. 30 AAC / DC
<b>Transition Resistance</b>		< 30 MΩ
<b>Switching Frequency</b>		max. 3 / s
<b>Mechanical Switching Cycles</b>		> 1 x 10 <sup>6</sup>
<b>Vibration Resistance</b>	10 - 55 Hz/g	5
<b>Shock Strength</b>	g - 11ms	5
<b>Carrier Material</b>		PBT GF30
<b>Protection System</b>		IP 20
<b>Fastening</b>		4-hole-mounting panel - ø 6,6 mm   0,26 in - 100x100 mm   3,94x 3,94 in
<b>Temperature</b>	Storage / Operating Temperature	-25 °C - 40 °C / 5 °C - 55 °C -13 - 104 °F / 41 °F - 131 °F
<b>Dimensions and Weight (approx.)</b>	Height	125 mm   4.9 in (without cables)
	Width	120 mm   4.7 in
	Depth	120 mm   4.7 in
	Weight	2 kg / 4.4 lbs
<b>Dimensions mounting plate (approx.)</b>	Height	120mm   4.7 in
	Width	120mm   4.7 in
	Depth	3 mm   0.12 in

