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