

DATASHEET

High Voltage Relays **RL 42-I / RL 42 / RL 21**



High voltage relay RL 42-I, up to 6,000 V AC, low current



High voltage relay RL 42, up to 6,000 V AC



High voltage relay RL 21, up to 6,000 V AC

		RL 42-I	RL 42	RL 21
Contacts		double pole double throw		single pole double throw
Field coil	Coil voltage	24 V DC		
	Holding current	0.09 A (20 °C)	0.20 A (20 °C)	
	Inrush current (first 100 ms)	0.34 A		
Coil resistance		115 Ω (20 °C)		
Status indication		LED		–
Connections	Switching circuits	flat plug 6.3 mm (0.25 in.)		
	Field coil	flat plug 4.8 mm (0.19 in.)		
Switching capacity		max. 5,000 VA (ohmic load)		
Test voltage	Contact / field coil	12,000 V DC		
	Contact set 11 / contact set 21	8,000 V DC		–
Switching voltage max.		6,000 V AC		
Switching current		max. 10 A AC		
Continuous current		max. 30 A AC / DC		
Transition resistance		< 30 mΩ		–
Switching frequency		max. 3 / s		
Mechanical switching cycles		> 4 x 10 ⁶		
B10d value	I ≤ 10% I _{max}	> 2 x 10 ⁶		
Vibration resistance	10 – 55 Hz/g	5		
Shock strength	g – 11ms	5		
Carrier material		PBT GF30		
Protection system		IP 20		
General data	Dimensions (HxWxD) and weight:	55 x 78 x 48 mm / approx. 300 g 2.2 x 3.1 x 1.9 in. / approx. 0.66 lbs.	55 x 78 x 40 mm / approx. 260 g 2.2 x 3.1 x 1.6 in. / approx. 0.57 lbs.	
	Storage / Operation temp.	-25 up to +40 °C / +5 up to +55 °C		
Fastening		Top rail (via Mounting Clip)		
Accessories		Mounting Clip MC 22, Contact Protection DK 21		

High Voltage Relays RL 42-I / RL 42 / RL 21 | EN 104, 2024 | Subject to change and error.