

DATA SHEET

Relays RL 42-I / RL 42 / RL 21



High voltage relay RL 42-I, up to 5,000 V, low current

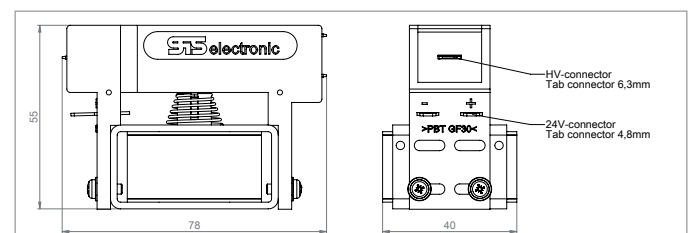
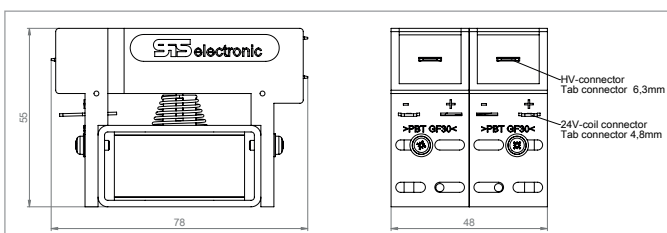


High voltage relay RL 42, up to 5,000 V



High voltage relay RL 21, up to 5,000 V

		RL 42-I	RL 42	RL 21
Contacts		double pole double throw		single pole double throw
Field coil	Coil voltage	24 V DC (5 – 55°C)		
	Holding current	0.07 A (20 °C)	0.20 A (20 °C)	
	Inrush current (first 100 ms)	0.25 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 voltage / capacity		For applications up to 5,000 V AC / max. 5,000 VA (ohmic load)		
Test voltage	Contact / field coil	20,000 V DC		
	Contact / contact	8,000 V DC		
	Isolating voltage	5,000 V AC		
Switching current		max. 10 A AC		
Continuous current		max. 30 A AC / DC		
Transition resistance		< 30 mΩ		< 40 mΩ
Switching frequency		max. 3 / s		
Mechanical switching cycles		> 5 x 10 ⁶		
B10d value	I ≤ 10% I _{max}	> 3 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 81		



RL 42-I / RL 42 / RL 21 | EN | 02.2020 Subject to change and error.