

RM699B

Slimline Interface Relays



RM699B
for PCB mounting
or plug-in sockets

- Cover width only 5,0 mm
- Sealed for soldering and cleaning
- Applications: for PLC's, industrial machinery, time relays, counters, temperature adjusters, measurement instruments, office equipment, etc.



RM699B SPDT DC coil / 6A rated current

Part Number	Coil Voltage DC	Coil Type	Coil Resistance at 20°C in Ω	Coil Operating Range	
				min. (at 20°C)	max. (at 55°C)
▶ RM699BV-3011-85-1005	5	DC	147	3.75	7.5
▶ RM699BV-3011-85-1012	12	DC	848	9.0	18.0
▶ RM699BV-3011-85-1024	24	DC	3390	18.0	36.0
▶ RM699BV-3011-85-1048	48	DC	10600	36.0	72.0
▶ RM699BV-3011-85-1060	60	DC	20500	45.0	90.0

RM699B SPDT gold plated contacts DC coil / 0.05A rated current

Part Number	Coil Voltage DC	Coil Type	Coil Resistance at 20°C in Ω	Coil Operating Range	
				min. (at 20°C)	max. (at 55°C)
RM699BV-3211-85-1005	5	DC	147	3.75	7.5
RM699BV-3211-85-1012	12	DC	848	9.0	18.0
RM699BV-3211-85-1024	24	DC	3390	18.0	36.0
RM699BV-3211-85-1048	48	DC	10600	36.0	72.0
RM699BV-3211-85-1060	60	DC	20500	45.0	90.0

Contact Data

		RM699B	
Number and type of contacts		SPDT	SPDT
Contact material		AgSnO ₂	AgSnO ₂ / Au 3µm
Max. switching voltage		400 V AC / 250 V DC	30V AC / 36 V DC
Min. switching voltage		10 V	5V
Rated load	AC1	6 A / 250 V AC	0.05 A / 30V AC
	DC1	6 A / 24 V DC; 0.15 A / 250 V DC	0.05 A / 36 V DC
Min. switching current		100 mA	10mA
Max. inrush current		10 A 20 ms	0.1 A 20 ms
Rated current		6A	0.05 A
Max. breaking capacity		1500 VA	1.2 VA
Min. breaking capacity		1 W	0.05 W
Contact resistance		≤ 100 mΩ 100 mA, 24 V	≤ 30 mΩ 10 mA, 5 V
Max. operating frequency			
• at rated load		360 cycles/hour	360 cycles/hour
• no load		72000 cycles/hour	72000 cycles/hour

Coil Data

Rated voltage	DC	5 ... 60 V
Must release voltage		DC: ≥ 0.05 U _n
Operating range of supply voltage		see table above
Rated power consumption	DC	0.17 W 5 ... 24 V; 0.217 W 48, 60 V

Insulation

Insulation rated voltage		250 V AC
Overvoltage category		III
Dielectric strength		4 000 V AC type of insulation: reinforced
		1 000 V AC type of clearance: micro-disconnection
Contact - coil distance		≥ 6 mm
		≥ 8 mm

General data

Operating / release time (typical values)		8 ms / 4 ms
Electrical life (number of cycles)		the SPST (1 NO) and SPST (1 NC) contact loaded (bilateral load): see Fig. 1
	• resistive AC1	the SPST (1 NO) contact loaded: > 3 x 10 ⁷ ; 6 A, 250 V AC
Mechanical life (cycles)		> 10 ⁷
Dimensions (L x W x H)		28 x 5 x 15 mm
Weight		6 g
Ambient temperature	• storage	-40...+85 °C
	• operating	-40...+85 °C
Cover protection category		IP 64 PN-EN 60529
Environmental protection		RTIII PN-EN 116000-3
Shock resistance		5 g
Vibration resistance		5 g 10...55 Hz
Solder bath temperature		max. 260 °C
Soldering time		max. 5 s

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