

Miniature Power Relay EJH



- 8 amp contact rating
- Fully sealed
- High sensitivity coil 220mW
- UL/CSA/VDE approved
- Creepage distance >8mm



Options and ordering codes

EJH	-	1C	-	N	-	S	-	L	-	12VDC
Contact Form		1A							Coil Voltage	
SPNO		1A								
SPCO		1C								
Contact Material			N			S	Sealing			
AgNi			N			S	Fully Sealed			
AgNi + Au plated			N1							
AgSnO ₂			S							
AgSnO ₂ + Au plated			S1							
									L	RoHS Compliant

Contact Data

Contact Arrangement	1A, 1C
Initial Contact Resistance max.	100mΩ (at 1A/6VDC)
Contact Material	see ordering info
Contact Rating (Res. Load)	8A 250VAC 8A 30VDC
Max. switching voltage	440VAC/125VDC
Max. switching current	10A
Max. switching power	2000VA/240W(@0.5HP 250VAC)
Electrical life	1x10 ⁷ OPS
Mechanical life	1x10 ⁵ OPS

Coil

Coil power	0.22W to 0.29W (48 to 60V)
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Characteristics

Initial Insulation Resistance	1000MΩ@500VDC	
Dielectric Strength	Between coil and contacts	5000VAC 1min.
	Between open contacts	1000VAC 1min.
Surge voltage between coil and contacts	10KV (1.2 x 50μs)	
Operate time (at nomi. Volt)	Max. 15ms	
Release time (at nomi. Volt)	Max. 8ms	
Temperature rise (at nomi. Volt)	55°C	
Humidity	35% to 85%	
Ambient temperature	-40°C to +85°C	
Shock resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration resistance	10 to 500Hz 20g/5g	
Termination	PCB	
Unit weight	8.2g	
Construction	Sealed IP67	

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Coil Data

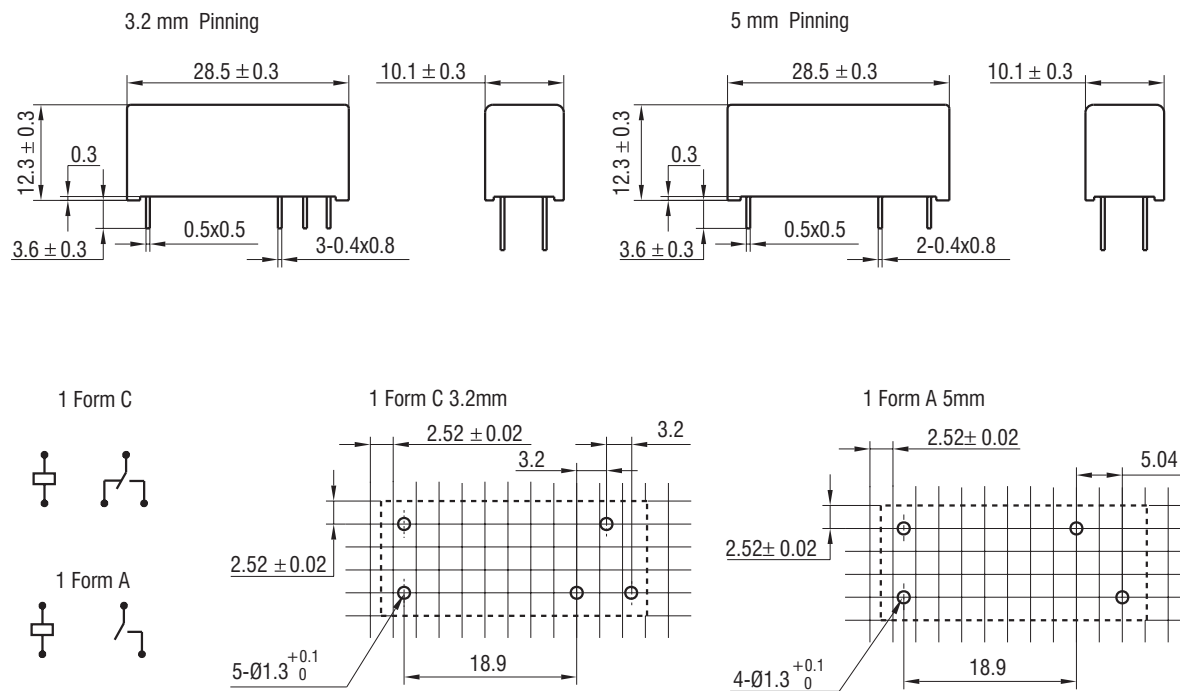
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable voltage VDC (at 20 °C)	Coil Resistance Ω (at 20 °C)
5	3.75	0.50	11.8	113 \pm 10%
6	4.50	0.60	14.1	164 \pm 10%
12	9.00	1.20	28.2	620 \pm 10%
18	13.50	1.80	42.3	1295 \pm 10%
24	18.00	2.40	56.4	2350 \pm 10%
48	36.00	4.80	112.8	9600 \pm 15%
60	45.00	6.00	141.0	12500 \pm 15%

Safety Approval Ratings

UL	AgSnO ₂	8A 250VAC/30VDC		
		Specifications	Loading	Ambient Temp
VDE	AgNi	EJH...1 (A:C)(N:N1)	8A 250VAC 5A 250VAC	COS ϕ =1@85°C COS ϕ =1@85°C
	AgSnO ₂	EJH...1 (A:C)(S:S1)	8A 250VAC 10(4)A/250VAC	COS ϕ =1@70°C COS ϕ =1@50°C
FIMKO			8A 10A 250VAC COS ϕ =1@55°C	

Outline dimensions (mm)

Wiring diagram and PC Board layout



Characteristic Curve

