

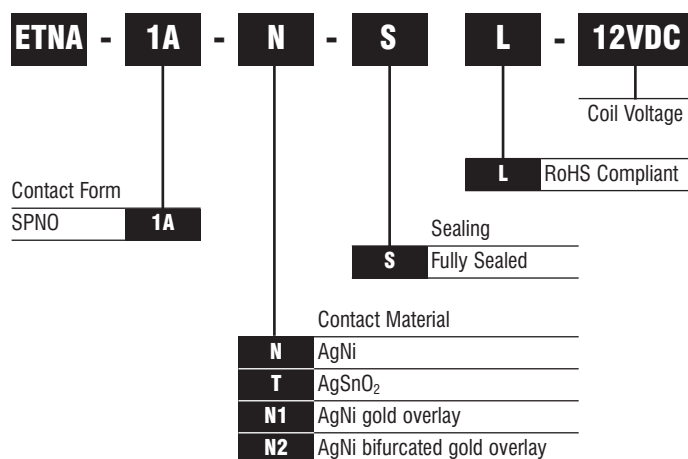
# Miniature Power Relay ETNA



- 5A SPNO contact
- Slim size (width 5mm, height 12.5mm)
- 3kV dielectric strength between coil and contacts
- Fully sealed for immersion cleaning
- High Coil Sensitivity 120mW
- UL and CUR, TUV approved



## Options and ordering codes



## Contact Data

Contact Arrangement	1A
Initial Contact Resistance max.	100mΩ (at 1A 6VDC)
Contact Material	See ordering information
Contact Rating (Res. Load)	5A 250VAC 5A 30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	5A
Max. switching power	1250VA/150W
Mechanical life	2x10 <sup>7</sup> OPS (72,000 OPS/hour)
Electrical life	1x10 <sup>5</sup> OPS (360 OPS/hour)

## Safety Approval Ratings

UL		5A 30VDC (L/R=0ms) 5A 250VAC (cos phi=1)
	N2	3A 30VDC (L/R=0ms) 3A 250VAC (cos phi=1)
TUV		5A 250VAC cos phi=1 5A 30VDC L/R=0ms

## Characteristics

Initial Insulation Resistance	1000MΩ @ 500VDC	
Dielectric Strength	Between coil & contacts	3,000VAC 1min.
	Between open contacts	1,000VAC 1min.
Operate time (at nomi. Volt)	Max. 10ms	
Release time (at nomi. Volt)	Max. 5ms	
Shock resistance	Functional	98 m/s <sup>2</sup>
	Destructive	980 m/s <sup>2</sup>
Vibration resistance	10 to 55Hz Double Amplitude 1.5mm	
Humidity	5% to 85%	
Ambient temperature	-40 °C to +85 °C	
Termination	PCB	
Unit weight	3g	
Construction	Sealed IP67	

## Coil

Coil power	0.12 to 0.18W
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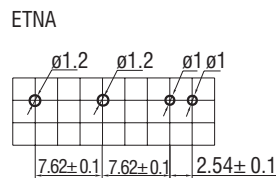
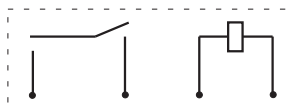
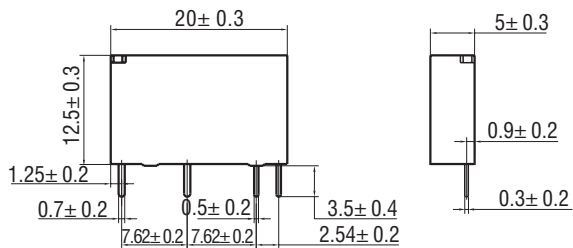


## Coil specification

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Current mA (at 20°C)	Coil Resistance Ω (at 20°C)
5	3.5	0.25	24.0	208±10%
6	4.2	0.30	20.0	300±10%
9	6.3	0.45	13.3	675±10%
12	8.4	0.60	10.0	1200±10%
18	12.6	0.90	6.70	2700±15%
24	16.8	1.20	7.50	3200±15%

## Outline dimensions (mm)

Wiring diagram and PC Board layout



## Characteristic Curve

