

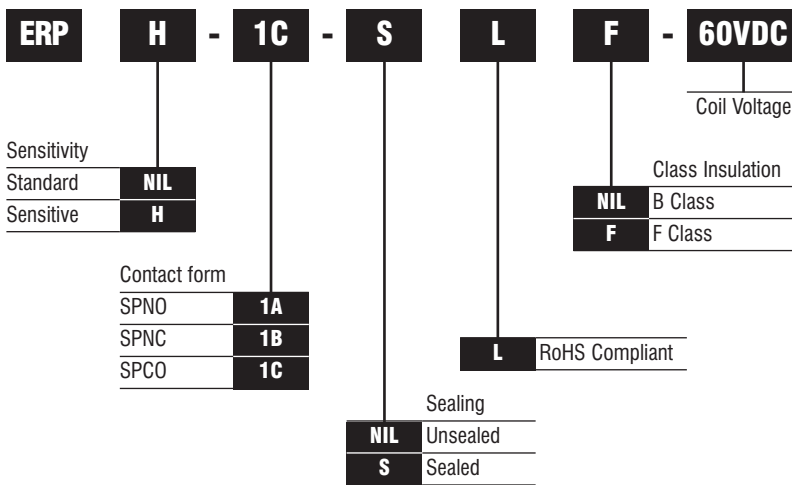
Miniature High Power Relay ERP



- SPST-NO & SPST-NC configurations
- 4KV dielectric between coil and contacts
- Sealed & Unsealed types available



Options and ordering codes



Contact Data

Contact Arrangement	1A, 1B, 1C
Initial Contact Resistance max.	50mΩ (1A 24VDC)
Contact Material	AgSnO ₂
Contact Rating (Res.Load)	20A 277VAC/24VDC 1HP 240VAC TV-8, 125VAC (NO Only)
Max. switching voltage	277VAC/30VDC
Max. switching current	20A
Max. switching power	5540VA/480W
Mechanical life	1x10 ⁷ OPS
Electrical life	1x10 ⁵ OPS

Coil

Coil power	Standard: 0.72W, Sensitive: 0.55W
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Characteristics

Initial Insulation Resistance	1000MΩ @ 500VDC	
Dielectric Strength	Between coil & contact	4000VAC 1min.
	Between open contacts	1000VAC 1min.
Operate time (at nomi. Volt)	15ms	
Release time (at nomi. Volt)	5ms	
Ambient Temp	-40°C to +85°C	
Humidity	98%, +40°C	
Shock resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration resistance	1.5mm, 10 to 55Hz	
Termination	PCB	
Unit Weight	Approx. 18.5g	
Construction	Sealed IP67 & Unsealed	

Safety Approval Ratings

UL	20A 277VAC (N.O.)
	20A 24VDC
	16A 277VAC
	12A 277VAC
	1HP 240VAC
TUV	TV-8 125VAC, (N.O.)
	16A 250VAC 16A 30VDC

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Coil Data: Standard Type

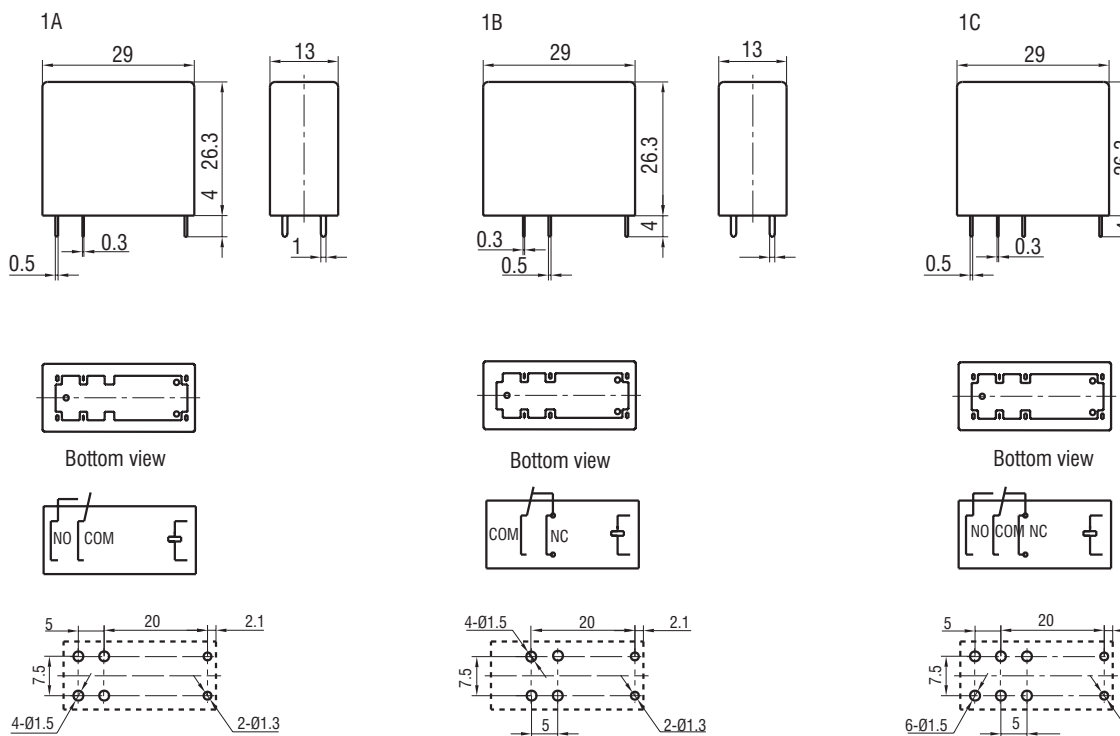
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC (at 20 °C)	Coil Resistance Ω
5	3.6	0.5	5.5	36 \pm 10%
6	4.3	0.6	6.6	50 \pm 10%
9	6.5	0.9	9.9	115 \pm 10%
12	8.3	1.2	13.2	200 \pm 10%
18	13.0	1.8	19.8	460 \pm 10%
24	17.3	2.4	26.4	820 \pm 10%
48	34.6	4.8	52.8	3300 \pm 15%
60	43.2	6.0	66.0	5100 \pm 15%

Coil Data: Sensitive Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC (at 20 °C)	Coil Resistance Ω
5	3.60	0.5	7.0	47 \pm 10%
6	4.30	0.6	8.4	68 \pm 10%
9	6.50	0.9	12.6	160 \pm 10%
12	8.60	1.2	16.8	275 \pm 10%
18	13.0	1.8	25.2	650 \pm 10%
24	17.3	2.4	33.6	1100 \pm 10%
48	34.6	4.8	67.2	4170 \pm 15%
60	43.2	6.0	84.0	7000 \pm 15%

Outline dimensions

Wiring diagram and PC Board layout



Characteristic Curve

