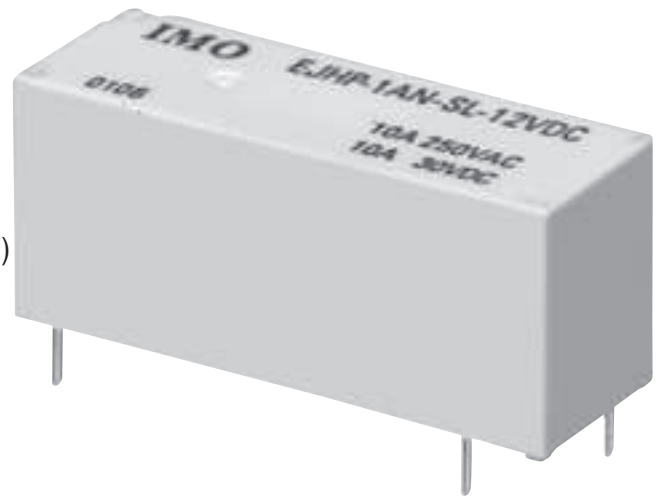


Miniature High Power Relay EJHP



- 10A switching capabilities
- 1 & 2 pole configuration
- 5kV dielectric strength (between coil and contacts)
- Low height 12.5mm
- Sealed & Flux tight types available
- Creepage distance > 8mm (VDE 0631, 0700 reinforce insulation)
- Outline dimensions: 28.5 x 10.1 x 12.5 mm



Options and ordering codes

EJHP		A	-	1A	N	-	S	L	-	24VDC
Footprint										Coil Voltage
Standard		NIL								
Layout A (1C Only)		A						L		RoHS Compliant
Layout B (1C Only)		B								
										Sealing
SPNO				1A				S		Sealed
SPNC				1B				F		Flux Tight
SPCO				1C						
DPNO				2A						Contact material
DPNC				2B				N		AgNi
DPCO				2C				N1		AgNi + Au plated
SPNO 5.04mm spacing				1A1				T		AgSnO ₂
SPNC 5.04mm spacing				1B1				T1		AgSnO ₂ + Au plated

Contact Data

Contact arrangement	1A, 1B, 1C	2A, 2B, 2C
Contact Material	See ordering info	
Contact Resistance	100mΩ (at 1A 6VDC)	
Contact Rating	10A 250VAC/30V	5A 250VAC/30VDC
Max. switching voltage	440VAC/125VDC	
Max. switching current	10A	5A
Max. switching power	2500VA/300W	1250VA/150W
Mechanical life	1x10 ⁷ OPS	
Electrical life	1x10 ⁵ OPS	

Coil

Coil power	1A, 1B, 1C	220mW - 290mW
	2A, 2B, 2C	360mW

Characteristics

Initial Insulation Resistance		1000MΩ @ 500VDC
Dielectric Strength	Between coil & contacts	5000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between sets	2500VAC 1min.
Operate time (at nomi. Volt)		Max. 10ms
Release time (at nomi. Volt)		Max. 5ms
Temperature rise (at nominal volt.)		55 K max.
Shock resistance	Functional	NC: 49m/s ² NO:98m/s ²
	Destructive	980m/s ²
Vibration resistance	NC (no coil voltage)	10 to 55Hz 0.8mm
	NO:	10 to 55Hz 1.65 mm
Ambient temperature		-40°C to +85°C
Humidity		35% to 85% RH
Termination		PCB
Unit Weight		Approx 8g
Construction		Sealed IP67 & Flux Tight

Miniature High Power Relay EJHP



Coil Data: 1A, 1B, 1C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
5	3.5	0.5	113 (1 $\pm$ 10%)
6	4.2	0.6	164 (1 $\pm$ 10%)
9	6.3	0.9	360 (1 $\pm$ 10%)
12	8.4	1.2	620 (1 $\pm$ 10%)
18	12.6	1.8	1295 (1 $\pm$ 10%)
24	16.8	2.4	2350 (1 $\pm$ 15%)
48	33.6	4.8	8000 (1 $\pm$ 15%)
60	42	6	12500 (1 $\pm$ 15%)

Coil Data: 2A, 2B, 2C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
5	3.5	0.5	70 (1 $\pm$ 10%)
6	4.2	0.6	100 (1 $\pm$ 10%)
9	6.3	0.9	225 (1 $\pm$ 10%)
12	8.4	1.2	400 (1 $\pm$ 10%)
18	12.7	1.8	900 (1 $\pm$ 10%)
24	16.8	2.4	1600 (1 $\pm$ 15%)
48	33.6	4.8	6400 (1 $\pm$ 15%)
60	42	6	10000 (1 $\pm$ 15%)

Safety Approval Ratings

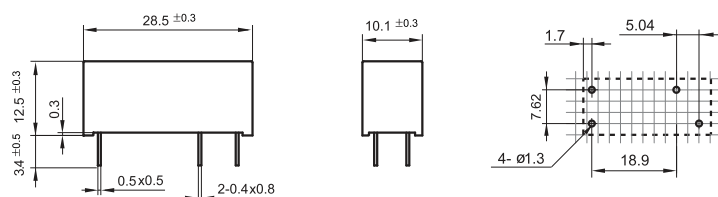
at 85°C

UL/CUR (AgNi, AgSnO ₂)	1A, 1B, 1C (AgNi, AgSnO ₂)	10A 250 VAC
		10A 30VDC
		1/2HP 240VAC
		AgSnO ₂ ; 1/3HP 120VAC
VDE (AgNi, AgNi + Au plated)	2A, 2B, 2C	5A 250VAC
	1A, 1B, 1C	8A 250VAC
VDE AgSnO ₂ , AgNi + Au plated)	2A, 2B, 2C	3A 250VAC / 3A 30VDC
	1A, 1B, 1C	8A 250VAC / 30VDC
	2A, 2B, 2C	3A 250VAC / 3A 30VDC

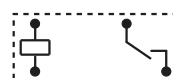
Outline dimensions

Wiring diagram and PC Board layout

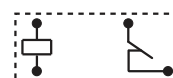
1 Form A, 1 Form B



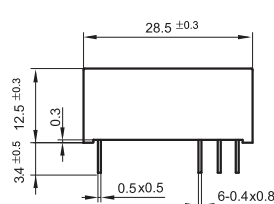
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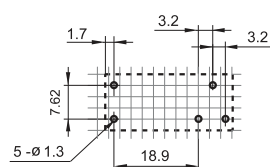
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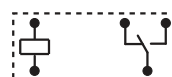
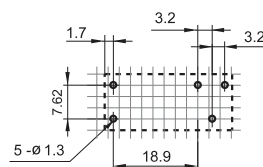
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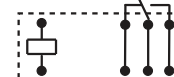
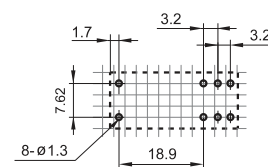
Standard Layout



Layout A



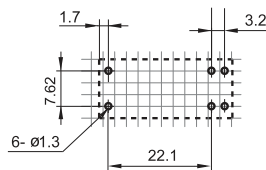
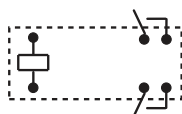
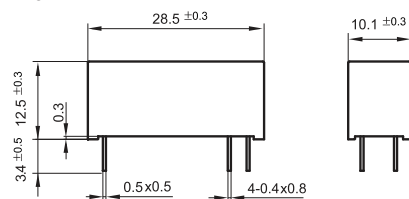
Layout B



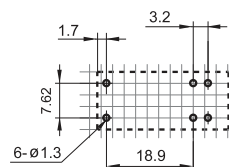
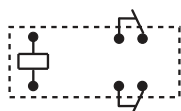
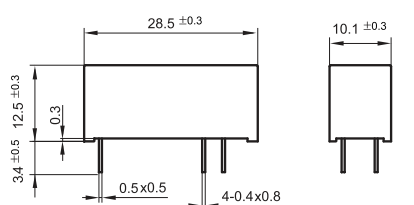
Miniature High Power Relay EJHP



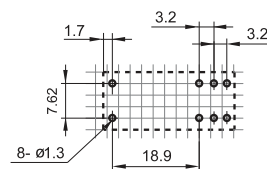
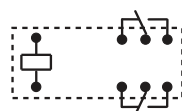
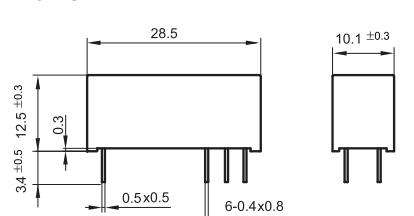
2 Form A



2 Form B

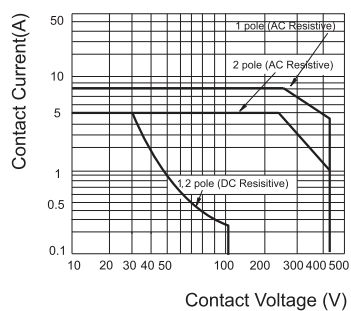


2 Form C



Characteristic Curve

MAXIMUM SWITCHING POWER



ENDURANCE CURVE

