

Main Feature

1. EMI-2P Series Relays are designed for switching capacity by 8A to comply with industrial control system use.
2. Slim type and low profile (29.0 x 12.6 x 15.6) is developed to provide end users with more flexibility in PC Board design.
3. Low power consumption and both AC and DC coil available.
4. Proper insulation distance is equipped to ensure EMI will has a 5000VAC dielectric strength between contact and coil.
5. Complete protective construction from dust and soldering flux is designed. If required, plastic epoxy resin sealed type is available for washing procedure.

Contact Rating

Load Type	EMI (DM/DB)	EMI (D)	EMI (AM/AB)	EMI (A)
Rated Load (Resistive)	8A 250VAC	8A 250VAC	8A 250VAC	8A 250VAC
	8A 30VDC	8A 30VDC	8A 30VDC	8A 30VDC
Rated Carrying Current	8A	8A	8A	8A
Max. Allowable Voltage	AC: 250V	AC: 250V	AC: 250V	AC: 250V
	DC:110V	DC:110V	DC:110V	DC:110V
Max. Allowable Current	8A	8A	8A	8A
Max. Allowable Power Force	2,000VA	2,000VA	2,000VA	2,000VA
	240W	240W	240W	240W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	DPST	DPDT	DPST	DPDT

Application

Cooking Appliance, Audio Equipment, Domestic Appliance and Controlling Equipment...etc.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max. @1A,6VDC
- Operate Time 12mSec. Max.
- Release Time 8 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact 5,000VAC at 50/60 Hz for one minute.
 - Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength: 10,000V (between coil & contact 1.2x50μSec.)
- Insulation Resistance 100MΩ Min at 500VDC.
- Max. On/Off Switching:
 - Electrical..... 20 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range -40~85 °C.
- Humidity Range 45~85% RH.
- Coil Temperature Rise 30 °C Max.

- Vibration:
 - Endurance 10 to 55 Hz dual amplitude width 1.5 mm.
 - Error Operation..... 10 to 55 Hz dual amplitude width 1.5 mm.
- Shock:
 - Endurance 1,000 m/S².
 - Error Operation..... 100 m/S².
- Life Expectancy:
 - Electrical..... 10⁵ Operations at Rated Resistive Load.
 - Mechanical 10⁷ Operations at No load condition.
- Weight About 12.5 g.

Accessories & Sockets

- PI-50BE See Page 151
- PI-50BE/3 See Page 151
- PI-50-0 See Page 152

Safety Standard & Its File Number

- C-UL.....E141060
- TÜV.....R-3-5000895
- VDE.....40009648

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage	Nominal Current (mA)		Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)		Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
		50HZ	60HZ		50HZ	60HZ			
EMI DC Coil	6	66.7		90	Abt. 0.40		80% Maximum	5% Minimum	130%
	9	44.6		202					
	12	33.3		360					
	15	26.6		563					
	18	22.3		808					
	24	16.7		1,440					
	48	8.7		5,520					
	60	8.2		7,340					
	110	4.1		26,530					
EMI AC Coil	24	29.75	25.35	350	0.71	0.61	30% Minimum		
	115	7.65	6.3	8,100	0.88	0.73			
	230	3.42	2.72	32,500	0.79	0.63			

Ordering Information

EMI - SS - 2 12 D M - G

Contact Material

Contact Form:

Coil Type:

Coil Voltage: VDC (06: 6V, 12: 12V, 24: 24V, 48: 48V, 60: 60V, 110: 110V)
VAC (24: 24V, 115: 115V, 230: 230V)

Number of Pole:

Type of Sealing:

Type:

Nil: AgNi

G: AgNi Gilded

O: AgNi Plated

N: AgSnO₂S: AgSnO₂ Gilded

Nil: One Form C

M: One Form A

B: One Form B

D: DC Coil

A: AC Coil

2: Two Poles

SS: Flow Solder Type

SH: Plastic Sealed Type

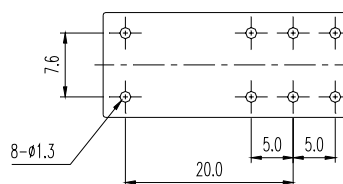
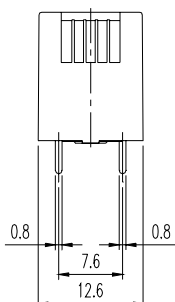
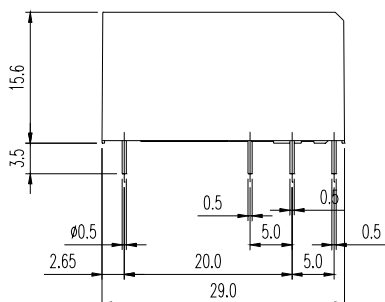
EMI

Classification

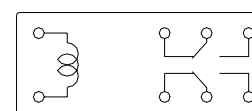
Model	EMI - 2P					
Coil Sensitivity	DC Coil			AC Coil		
Contact Form	2C	2A	2B	2C	2A	2B
Flow Solder Type	EMI-SS-2□□□D	EMI-SS-2□□□DM	EMI-SS-2□□□DB	EMI-SS-2□□□A	EMI-SS-2□□□AM	EMI-SS-2□□□AB
Plastic Sealed Type	EMI-SH-2□□□D	EMI-SH-2□□□DM	EMI-SH-2□□□DB	EMI-SH-2□□□A	EMI-SH-2□□□AM	EMI-SH-2□□□AB

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

EMI-2P-SS/SH



BOTTOM VIEW



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