

Main Feature

1. Low power consumption and both AC and DC coil available.
2. Proper insulation distance with 5,000VAC dielectric strength.
3. Class F insulation system.
4. In accordance with IEC 60335-1 and IEC 60730-1.
5. Halogen Free series available.

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 300V	DC 300V	DC 300V	DC 300V
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

Max Allowable Voltage: 300VDC@0.2A

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 177
- PI-50BE/3 See Page 177
- PI-50-0 See Page 179

Safety Standard & File Number

- UL & C-UL E141060
- TÜV R50008958
- VDE 40009648
- CQC 02001002511

EMI-2P

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (DC: W; AC: VA)		Pull-In Voltage	Drop-Out Voltage	Maximum Allowable Voltage
		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		560					
	18	22.3		810					
	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 F

Insulation System:

Nil: Standard Class

F: F Class

Nil: AgNi

G: AgNi Gilded

O: AgNi Plated

N: AgSnO₂

S: AgSnO₂ Gilded

C: AgCdO

Contact Form:

Nil: Form C

M: Form A

B: Form B

Coil Type:

D: DC Coil

A: AC Coil

Coil Voltage: VDC (06: 6V, 09: 9V, 12: 12V, 15: 15V, 18: 18V,

24: 24V, 48: 48V, 60: 60V, 110: 110V)

VAC (24: 24V, 115: 115V, 230: 230V)

Number of Pole:

2: Two Poles

Type of Sealing:

SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

Type:

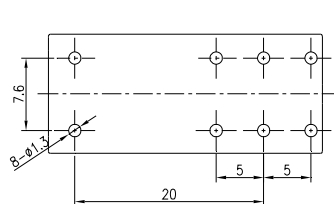
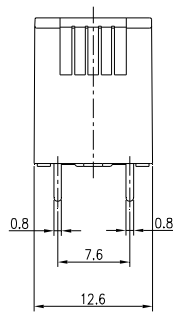
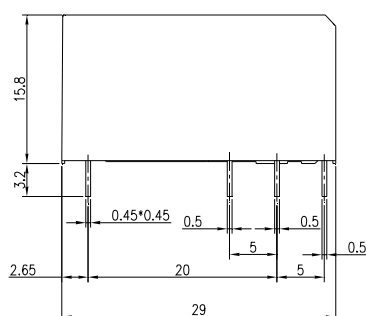
EMI

Classification

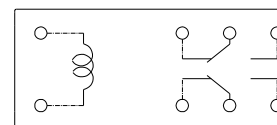
Model	EMI - 2P					
	DC Coil			AC Coil		
Coil Sensitivity						
Contact Form	2C	2A	2B	2C	2A	2B
Flux Proofed Relay	EMI-SS-2□□□D	EMI-SS-2□□□DM	EMI-SS-2□□□DB	EMI-SS-2□□□A	EMI-SS-2□□□AM	EMI-SS-2□□□AB
Wash Tight Relay	EMI-SH-2□□□D	EMI-SH-2□□□DM	EMI-SH-2□□□DB	EMI-SH-2□□□A	EMI-SH-2□□□AM	EMI-SH-2□□□AB

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



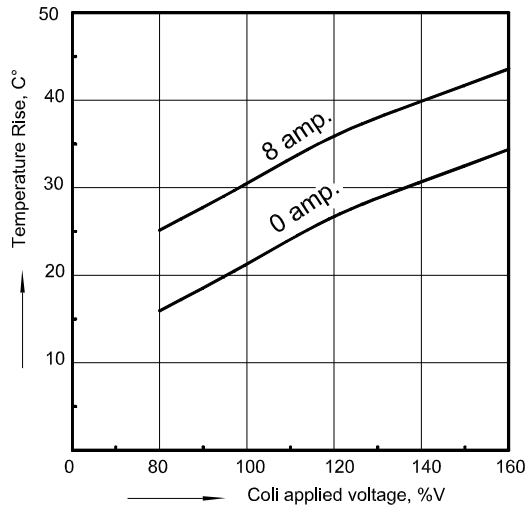
P.C.B. Layout



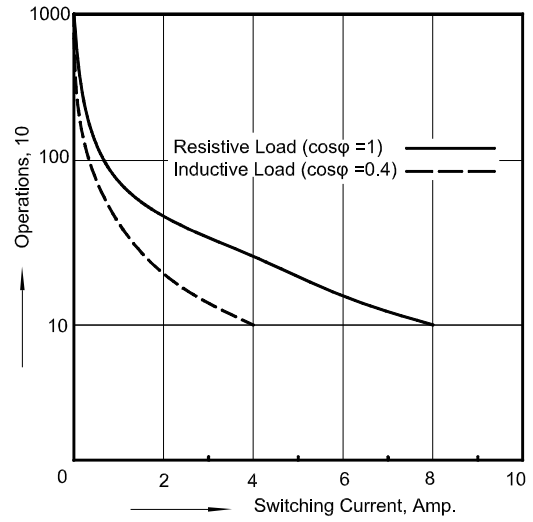
Bottom View

Reference Data

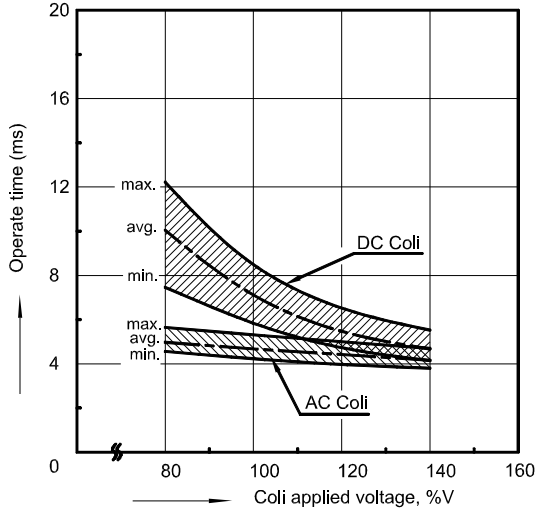
Temperature Rise (at 85°C)



Endurance



Operate time



Release time

