



Main Feature

1. High switching current at 16A in small size.
2. 1 N/O contact with a tungsten pre-make contact.
3. Dielectric Strength up to 5,000VAC.
4. 1 pole 16 A, 1 NO contact (W pre-make contact + AgSnO₂). 165 A / 20 ms inrush peak current.
5. Comply with RoHS and REACH regulations

Contact Rating

Load Type	EML (DM)
Rated Load (Resistive)	16A 250VAC
Rated Carrying Current	16A
Max. Allowable Voltage	AC 400V
Max. Allowable Current	16A
Max. Allowable Power Force	4000VA
Contact Material	R (Main) : Ag Alloy, L (Pre-make) : W Tungsten Load: 3000W/230VAC
Contact Capacity	Inrush peak current (20ms): 165A 16A.250VAC, capacitive load 140 μf TV-15 120VAC
Contact Form	SPST

Application

Lamp Control, Audio Equipment, Domestic Appliance and Controlling Equipment...etc.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max. @1A,6VDC
- Contact Rating(resistive load)
- Operate Time 8 mSec. Max.
- Release Time 3 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact..... 5,000VAC at 50/60Hz for one minute
 - Between Contacts 1,000VAC at 50/60Hz for one minute
- Surge Strength 10,000V (between coil & contact 1.2x50uSec.)
- Insulation Resistance 100MΩ Min. at 500VDC
- Max. On/Off Switching:
 - Electrical 6 Cycles per Minute
 - Mechanical 300 Cycles per Minute
- Vibration:
 - Endurance..... 10 to 55Hz dual amplitude width 1.5mm
 - Error Operation.....10 to 55Hz dual amplitude width 1.5mm

- Humidity Range 45~85% RH.
- Temperature Range.....-45~+85°C.
- Coil Temperature Rise..... 45°C Max.
- Shock:
 - Endurance 1,000 m/S²
 - Error Operation..... 100 m/S²
- Life Expectancy:
 - Electrical 5x10⁴ Operations at Rated Resistive Load
1.2x10⁴ Operations at Tungsten Load
 - Mechanical..... 5x10⁶ Operations at No Load condition
- Weight About 12.5 g

Accessories & Sockets

- PI-50BE See Page 179
- PI-50BE/3 See Page 179
- PI-50-0 See Page 181

Safety Standard & File Number

- UL.....In Progress



Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
EML DC Coil	3	130	23	Abt. 0.40	70% Maximum	10% Minimum	130%
	5	80	63				
	6	67	90				
	9	44	203				
	12	33	360				
	15	27	563				
	18	22	810				
	24	17	1440				
	48	8	5760				
	60	7	9000				

Ordering Information

EML - SH - 1 12 D M

Contact Form:

M: One Form A

Coil Type:

D: Standard DC Coil

Coil Voltage:

03: 3V, **05:** 5V, **06:** 6V, **09:** 9V, **12:** 12V,
15: 15V, **18:** 18V, **24:** 24V, **48:** 48V, **60:** 60V

Number of Pole:

1: One Pole

Type of Sealing:

SS: RT II Flux Proofed

SH: RT III Wash Tight

Type:

EML

Classification

Model	EML
Coil Sensitivity	DC Coil
Contact Form	1A
Flux Proofed	EML-SS-1□□DM
Wash Tight	EML-SH-1□□DM

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

