



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 277VAC
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
Contact Capacity	Tungsten Load: 3000W/230VAC
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 10 mSec. Max.
- Release Time 5 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:
 - Destruction 10 to 55 to 10 Hz,0.75 mm single
amplitude (1.5mm double amplitude)
 - Malfunction 10 to 55 to 10 Hz,0.75 mm single
amplitude (1.5mm double amplitude)

- Humidity Range..... 45~85% RH.
- Temperature Range..... -45~+85°C.
- Coil Temperature Rise..... 45°C Max.
- Shock:
 - Destruction 1,000 m/S²
 - Malfunction 100 m/S²
- Life Expectancy:
 - Electrical 6x10⁴ Operations at
Rated Resistive Load
3x10⁴ Operations at
Tungsten Load
 - Mechanical..... 5x10⁶ Operations at
No Load condition
- Weight..... About 12.5 g

ACCESSORIES & SOCKETS

- PI-50BE See Page 171
- PI-50BE/3 See Page 171
- PI-50-0 See Page 173

SAFETY STANDARD & FILE NUMBER

- UL.....E141060

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	3	130	23	Abt. 0.40	75% 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 F

Insulation System:

Nil: Standard Class
F: Class F

Contact Form:

M: One Form A

Coil Type:

D: Standard DC

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: $+0.1\text{mm}$)

