



Main Feature

1. EZI Series Relays are designed for switching capacity by 12A to comply with industrial control system use.
2. Slim type and low profile (29.0 x 12.7 x 15.0) 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 EZI 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.
6. Contacts pin out width 5.0 mm.

Contact Rating

Load Type	EZI (DM)	EZI (D)	EZI (AM)	EZI (A)
Rated Load (Resistive)	12A 250VAC	12A 250VAC	12A 250VAC	12A 250VAC
	12A 30VDC	12A 30 VDC	12A 30VDC	12A 30VDC
Rated Carrying Current	12A	12A	12A	12A
Max. Allowable Voltage	AC: 250V	AC: 250V	AC: 250V	AC: 250V
	DC: 110V	DC: 110V	DC: 110V	DC: 110V
Max. Allowable Current	12A	12A	12A	12A
Max. Allowable Power Force	3,000VA	3,000VA	3,000VA	3,000VA
	360W	360W	360W	360W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT	SPST	SPDT

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 6 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 Operation10 to 55 Hz dual amplitude width 1.5 mm.
- Shock:
 - Endurance1,000 m/S².
 - Error Operation100 m/S².
- Life Expectancy:
 - Electrical10⁵ Operations at Rated Resistive Load.
 - Mechanical.....10⁷ Operations at No load condition.
- Weight.....About 15 g.

Accessories & Sockets

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

Safety Standard & Its File Number

- C-UL.....E141060
- 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	50HZ	60HZ			
EZI 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						
EZI 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

EZI - SS - 1 12 D M - G

Contact Material

Contact Form:

Coil Type:

Coil Voltage:

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

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)

1: One Pole

SS: Flow Solder Type

SH: Plastic Sealed Type

EZI

Classification

Model	EZI					
Coil Sensitivity	DC Coil			AC Coil		
Contact Form	1C	1A	1B	1C	1A	1B
Flow Solder Type	EZI-SS-1□□□D	EZI-SS-1□□□DM	EZI-SS-1□□□DB	EZI-SS-1□□□A	EZI-SS-1□□□AM	EZI-SS-1□□□AB
Plastic Sealed Type	EZI-SH-1□□□D	EZI-SH-1□□□DM	EZI-SH-1□□□DB	EZI-SH-1□□□A	EZI-SH-1□□□AM	EZI-SH-1□□□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: $+0.1\text{mm}$)