

Main Feature

1. Low power consumption and both AC and DC coil available.
2. Proper insulation distance with 5000VAC dielectric strength.
3. Contacts pin out width 5.0 mm.
4. Class F insulation system.
5. In accordance with IEC 60335-1 and IEC 60730-1.
6. Halogen Free available.

Contact Rating

Load Type	EZI (DM/DB)	EZI (D)	EZI (AM/AB)	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 300V	DC 300V	DC 300V	DC 300V
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

Max Allowable Voltage: 300VDC@0.3A

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 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 15 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
- VDE..... 40009648
- CQC..... 02001002513



Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance (±10%)		Power Consumption (DC: W; AC: VA)		Pull-In Voltage	Drop-Out Voltage	Maximum Allowable Voltage
		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		560						
	18	22.3		810						
	24	16.7		1,440						
	48	8.7		5,520						
	60	8.2		7,340						
EZI AC Coil	110	4.1		26,530				30% Minimum		
	24	29.75	25.35	350		0.71	0.61			
	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 F

Insulation System:

Nil: Standard Class

F: F Class

Contact Material:

Nil: AgNi

G: AgNi Gilded

O: AgNi Plated

N: AgSnO₂

S: AgSnO₂ Gilded

C: AgCdO

Contact Form:

Nil: One Form C

M: One Form A

B: One 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:

1: One Pole

Type of Sealing:

SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

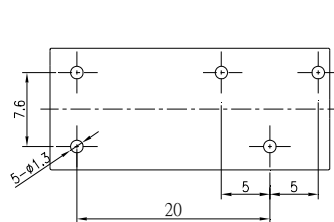
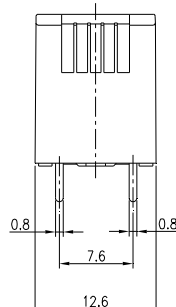
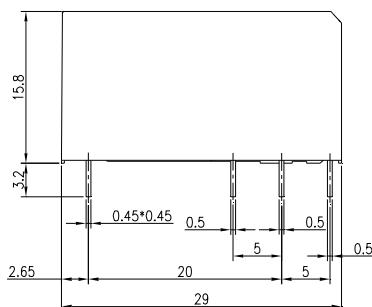
Type:

EZI

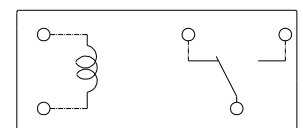
Classification

Model	EZI					
	DC Coil			AC Coil		
Coil Sensitivity						
Contact Form	1C	1A	1B	1C	1A	1B
Flux Proofed Relay	EZI-SS-1□□□D	EZI-SS-1□□□DM	EZI-SS-1□□□DB	EZI-SS-1□□□A	EZI-SS-1□□□AM	EZI-SS-1□□□AB
Wash Tight Relay	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 (≤ 5mm ± 0.2mm, > 5mm ± 0.3mm, the tolerance of PCB thru hole: +0.1mm)



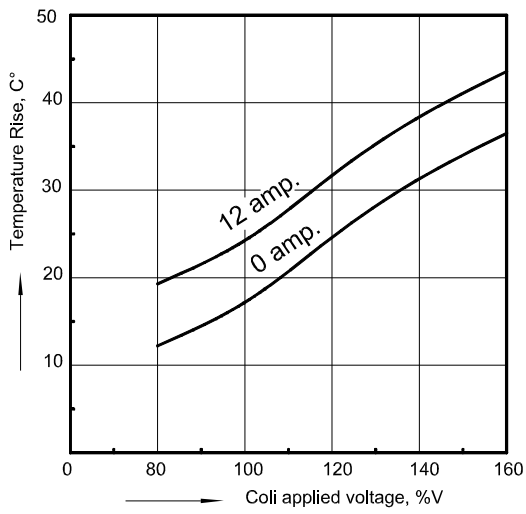
P.C.B. Layout



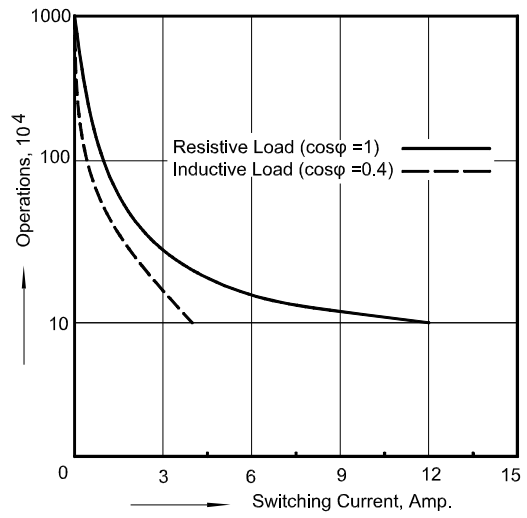
Bottom View

Reference Data

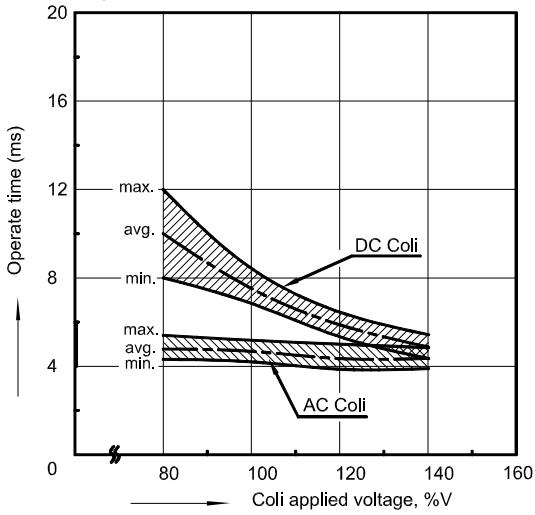
Temperature Rise (at 85°C)



Endurance



Operate time



Release time

