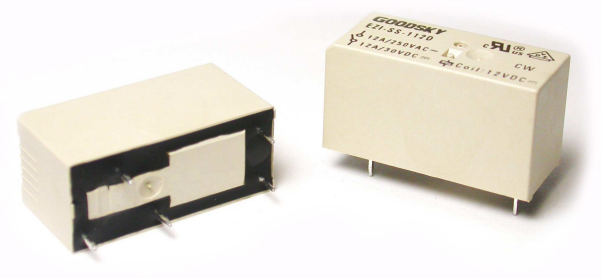


Main Feature

1. Low power consumption; AC/DC coil available.
2. Proper insulation distance with 5000VAC dielectric strength.
3. Contacts pin out width 5.0 mm.
4. UL Class F insulation available.
5. In accordance with IEC 60335-1 and IEC 60730-1.
6. Halogen Free available.
7. Comply with RoHS and REACH regulations

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/S^2
  Error Operation ..... 100 m/S^2
- Life Expectancy:
  Electrical..... 10^5 Operations at Rated Resistive Load
  Mechanical..... 10^7 Operations at No load condition
- Weight..... About 15 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 & C-UL..... E141060
- VDE..... 40009648
- CQC..... 02001002513

EZI

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						
	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

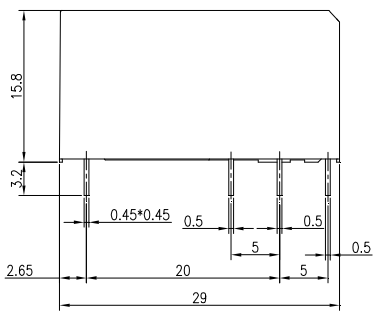
EZI - SS - 1 12 D M - G F

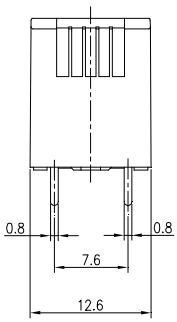
Insulation System:	**Nil:** Standard Class **F:** Class F
Contact Material:	**Nil:** AgNi **G:** AgNi Gilded **O:** AgNi Plated **N:** $AgSnO_2$ **S:** $AgSnO_2$ Gilded **C:** AgCdO
Contact Form:	**Nil:** One Form C **M:** One Form A **B:** One Form B
Coil Type:	**D:** Standard DC **A:** Standard AC
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 **SH:** RT III Wash Tight
Type:	**EZI**

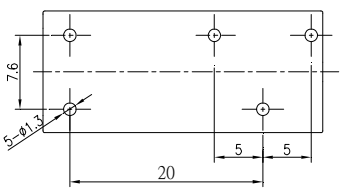
Classification

Model	EZI					
Coil Sensitivity	DC Coil			AC Coil		
Contact Form	1C	1A	1B	1C	1A	1B
Flux Proofed	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	EZI-SH-1□□□D	EZI -SH-1□□□DM	EZI -SH-1□□□DB	EZI -SH-1□□□A	EZI -SH-1□□□AM	EZI -SH-1□□□AB

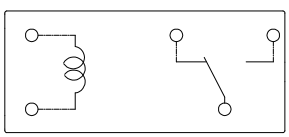
Dimension (≦ 5mm± 0.2mm, > 5mm ± 0.3mm, the tolerance of PCB thru hole: +0.1mm)







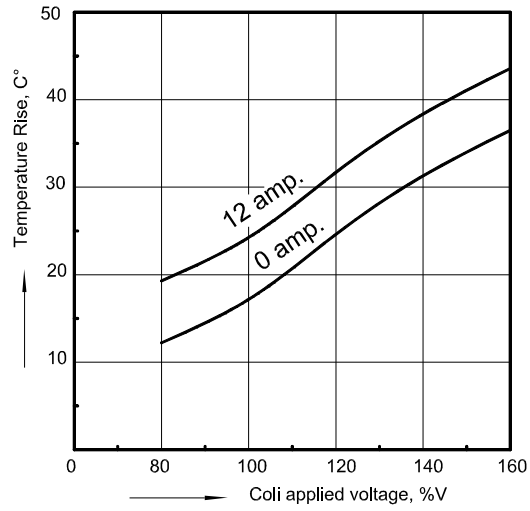
P.C.B. Layout



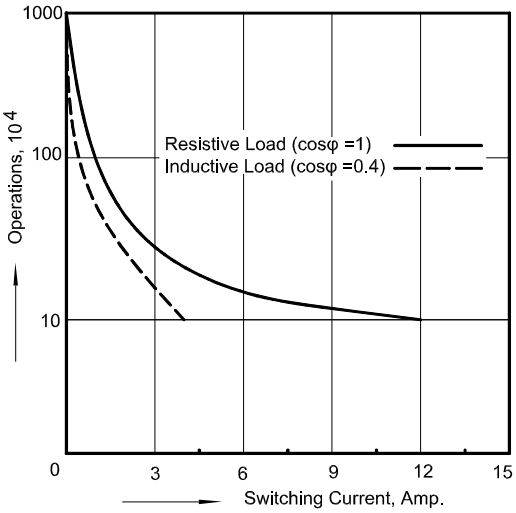
Bottom View

Reference Data

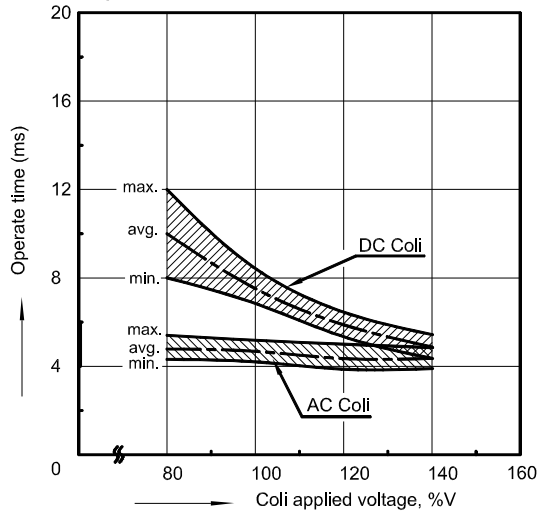
Temperature Rise (at 85°C)



Endurance



Operate time



Release time