

MAIN FEATURE

1. High switching current up to 20A in small size.
2. Low power consumption; AC/DC coil available.
3. Proper insulation distance with 5,000VAC dielectric strength.
4. UL Class F insulation available.
5. In accordance with IEC 60335-1 and IEC 60730-1.
6. Halogen Free series available.
7. Comply with RoHS and REACH regulations.

CONTACT RATING

Load Type	EZ (DM/DB)	EZ (D)	EZ (AM/AB)	EZ (A)
Rated Load (Resistive)	16A 250 VAC	16A 250 VAC	16A 250 VAC	16A 250 VAC
	20A 120 VAC	20A 120 VAC	20A 120 VAC	20A 120 VAC
	16A 30VDC	16A 30VDC	16A 30VDC	16A 30VDC
Contact capacity	5 FLA /30 LRA 250 VAC	5 FLA /30 LRA 250 VAC	5 FLA /30 LRA 250 VAC	5 FLA /30 LRA 250 VAC
	1/2 HP 250VAC	1/2 HP 250VAC	1/2 HP 250VAC	1/2 HP 250VAC
	Pilot Duty B300/C300	Pilot Duty B300/C300	Pilot Duty B300/C300	Pilot Duty B300/C300
	TV-5 120VAC	TV-5 120VAC	-	-
Rated Carrying Current	20A	20A	20A	20A
Max. Allowable Voltage	AC: 250V	AC: 250V	AC: 250V	AC: 250V
	DC: 300V	DC: 300V	DC: 300V	DC: 300V
Max. Allowable Current	20A	20A	20A	20A
Max. Allowable Power Force	4,000VA	4,000VA	4,000VA	4,000VA
	480W	480W	480W	480W
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. (DC coil only)
20mSec. Max. (AC coil only)
- Release Time 8 mSec. Max. (DC coil only)
20mSec. Max. (AC coil only)
- 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:
 - 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)
- Shock:
 - Destruction 1,000 m/S²
 - Malfunction 100 m/S²
- Life Expectancy:
 - Electrical 10⁵ Operations at
Rated Resistive Load
 - Mechanical 10⁷ Operations at
No load condition
- Weight About 12.5 g

ACCESSORIES & SOCKETS

- PI-50BE See Page 140
- PI-50BE/3 See Page 141
- PI-50-0 See Page 141

SAFETY STANDARD & FILE NUMBER

- UL & C-UL E141060
- TÜV R50008955
- VDE 40009648

COIL SPECIFICATION (AT 20 °C)

Coil Sensitivity	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (DC: W; AC: VA)		Pull-In Voltage	Drop-Out Voltage	Maximum Allowable Voltage
		50HZ	60HZ		50HZ	60HZ			
EZ 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					
EZ AC Coil	110	4.1		26,530					
	24	29.75	25.35	350	0.71	0.61	15% Minimum		
	115	7.65	6.3	8,100	0.88	0.73			
	230	3.42	2.72	32,500	0.79	0.63			

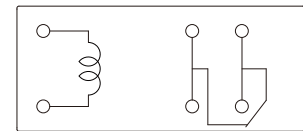
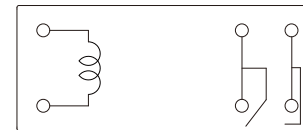
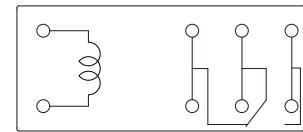
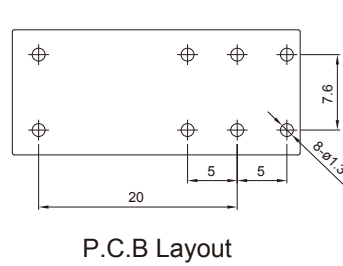
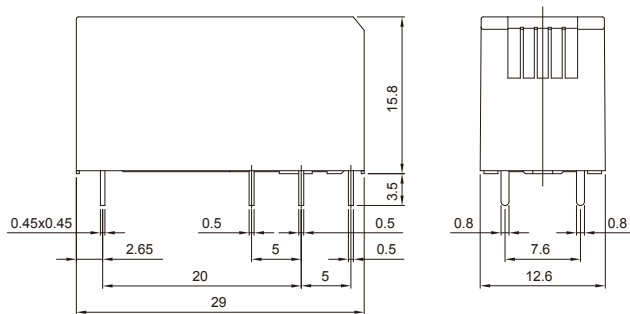
ORDERING INFORMATION

EZ	-	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
										Contact Form:
										Nil: One Form C
										M: One Form A
										B: One Form B
										D: Standard DC
										A: Standard AC
										Coil Type:
										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:
										EZ

CLASSIFICATION

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

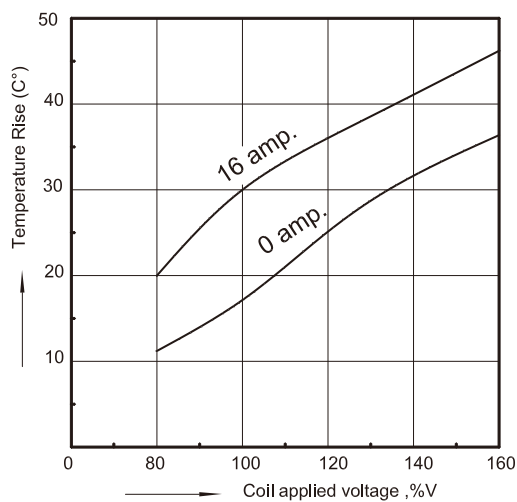
DIMENSION ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)



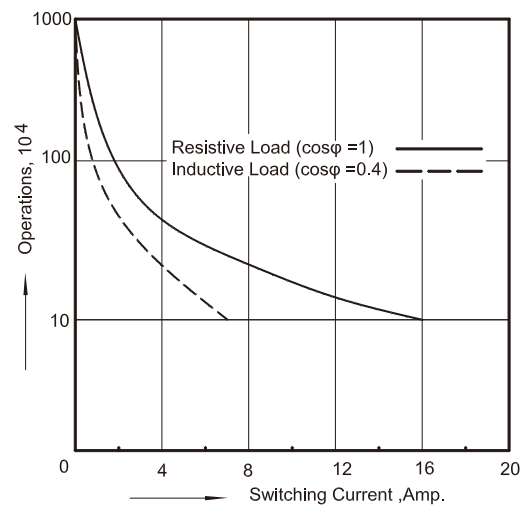
Bottom View

REFERENCE DATA

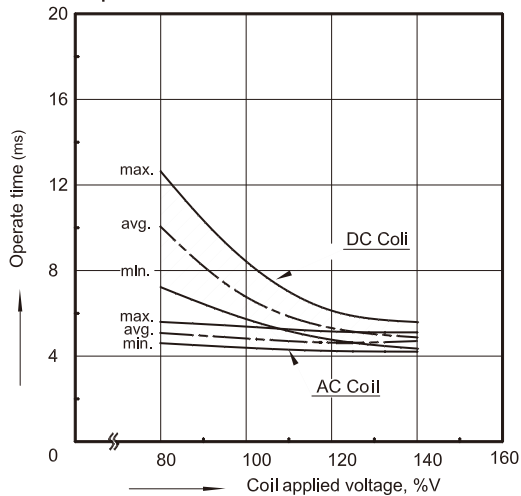
Temperature Rise (at 85°C)



Endurance



Operate time



Release time

