

MAIN FEATURE

1. Slim size with 12A rated loaded.
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	EMI-1P (DM)	EMI-1P (DB)	EMI-1P (D)	EMI-1P (AM/AB)	EMI-1P (A)
Rated Load (Resistive)	12A 277VAC	12A 250VAC	12A 250VAC	12A 250VAC	12A 250VAC
	12A 30VDC	12A 30VDC	12A 30VDC	12A 30VDC	12A 30VDC
Rated Carrying Current	12A	12A	12A	12A	12A
Max. Allowable Voltage	AC 277V	AC 250V	AC 250V	AC 250V	AC 250V
	DC 300V	DC 300V	DC 300V	DC 300V	DC 300V
Max. Allowable Current	12A	12A	12A	12A	12A
Max. Allowable Power Force	3,324VA	3,000VA	3,000VA	3,000VA	3,000VA
	360W	360W	360W	360W	360W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPST	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 Strength 100MΩ Min. at
500VDC
- Max. On/Off Switching:
 - Electrical.....6 Cycles per Minute
 - Mechanical300 Cycles per Minute
- Temperature Range-40~+85 °C
- Humidity Range45~85% 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-35BE See Page 140
- PI-35BE/3 See Page 140
- PI-35-0 See Page 141

SAFETY STANDARD & FILE NUMBER

- UL & C-UL.....E141060
- TÜV.....R50006688
- 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			
EMI 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					
EMI AC Coil	24	29.75	25.35	350	0.71	0.61	80% Maximum	15% Minimum	130%
	115	7.65	6.3	8,100	0.88	0.73			
	230	3.42	2.72	32,500	0.79	0.63			

ORDERING INFORMATION

EMI - 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: AgSnO₂S: AgSnO₂ Gilded

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

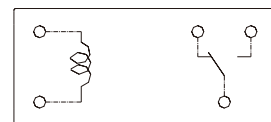
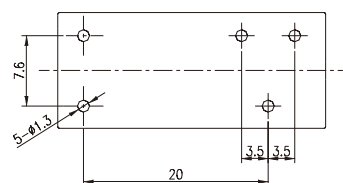
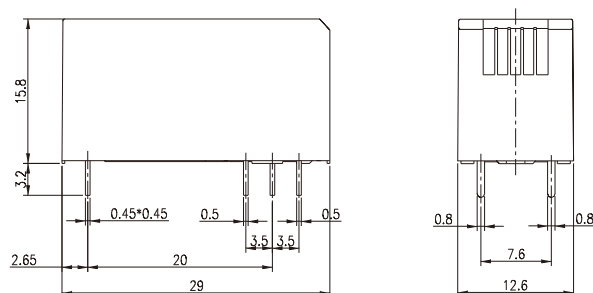
Type:

EMI

CLASSIFICATION

Model	EMI - 1P					
Coil Sensitivity	DC Coil			AC Coil		
Contact Form	1C	1A	1B	1C	1A	1B
Flux Proofed	EMI-SS-1□□□D	EMI-SS-1□□□DM	EMI-SS-1□□□DB	EMI-SS-1□□□A	EMI-SS-1□□□AM	EMI-SS-1□□□AB
Wash Tight	EMI-SH-1□□□D	EMI-SH-1□□□DM	EMI-SH-1□□□DB	EMI-SH-1□□□A	EMI-SH-1□□□AM	EMI-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: $+0.1\text{mm}$)

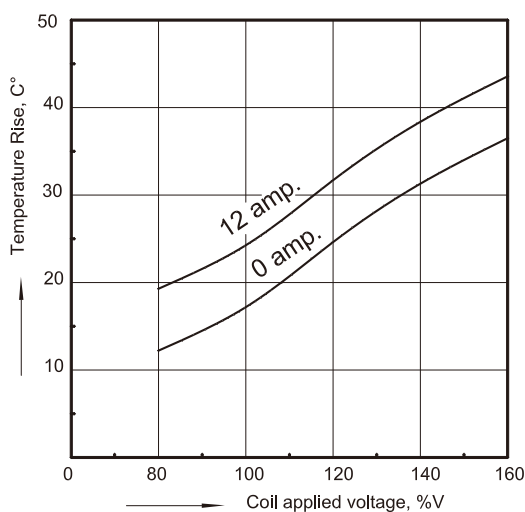


P.C.B Layout
Bottom View

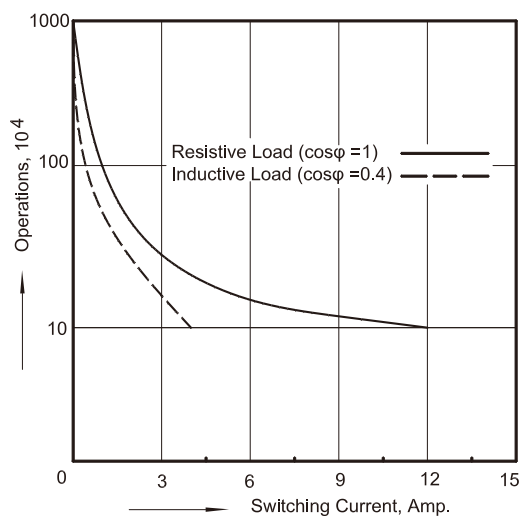
Bottom View

REFERENCE DATA

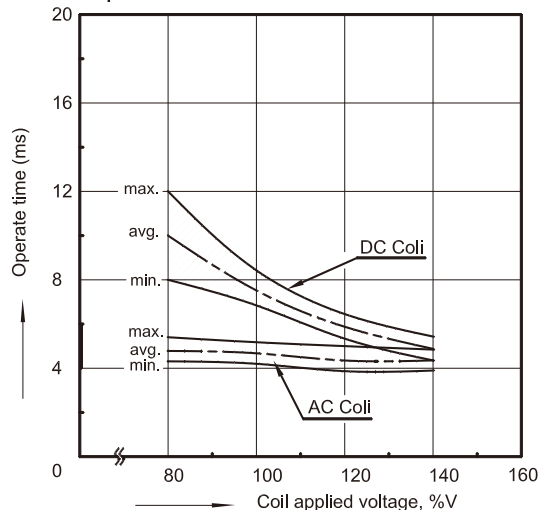
Temperature Rise (at 85°C)



Endurance



Operate time



Release time

