

PCB power relays

Order code	Manufacturer code	Description
60-4600	n/a	MI-SS-112L 12V 10A SPDT RELAY
60-4602	n/a	MI-SS-124L 24V 10A SPDT RELAY

PCB power relays	Page 1 of 4
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

Miniature Relay SPDT 10A

Main Features

1. MI-1 pole series relay cover switching capacity 10A.
2. Slim type and small occupying area can offer high density P.C.Board technique.
3. Insulation distance of 8mm min. is designed. By using insulation that meets JIS insulation class E, a dielectric strength of 5000V min. and surge resistance of 1000V min. are possible.
4. Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
5. Complete protective construction from dust and soldering flux.



MI 10A

GS part no.	Coil	Resistance
M1-SS-112L	12V	270Ω
M1-SS-124L	24V	1100Ω

Coil specifications:

Nominal voltage (VDC)	Nominal current (mA)	Coil resistance (Ω ±10%)	Power Consumption (W)	Pull-in voltage (VDC)	Drop-out voltage (VDC)	Maximum allowable voltage (VDC)
12V	44.4	270	Abt. 0.54	80% maximum	5% minimum	130%
24V	21.8	1,100				

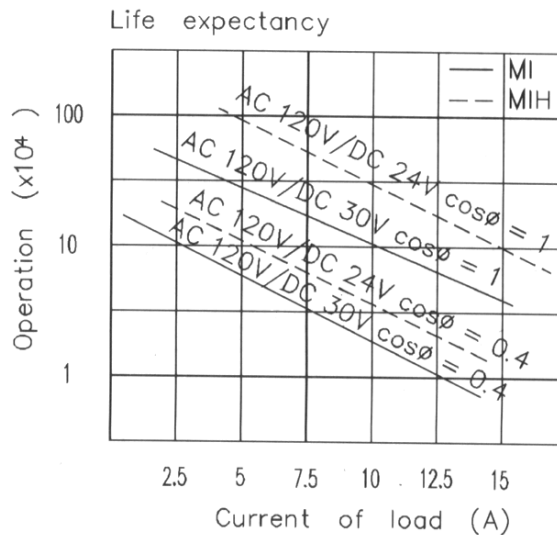
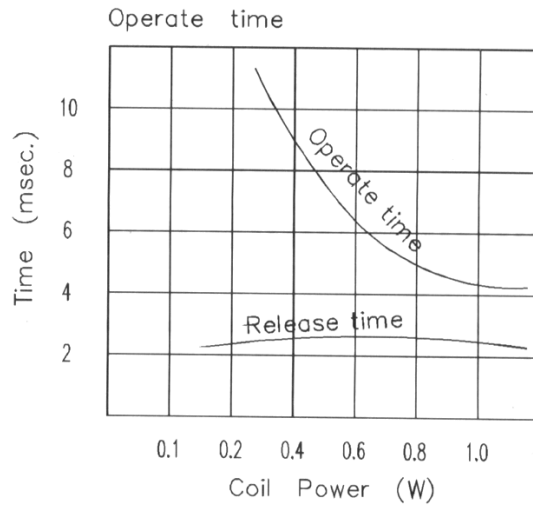
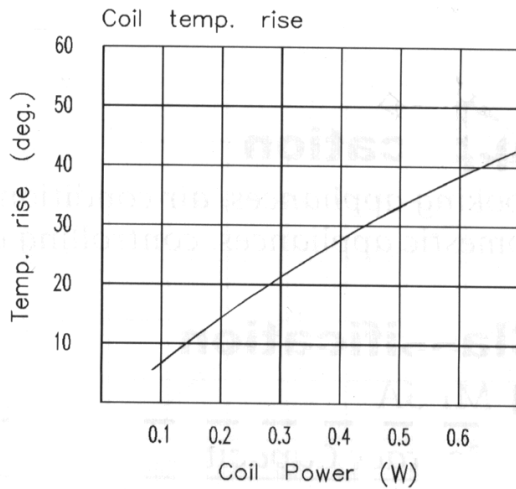
Contact ratings:

Contact capacity Resistive load (Cos ϕ = 0.4 L/R = 7 mSec)	10A/250VAC 10A/30VDC 5A/240VAC 5A/30VDC
Rated carrying current:	10A
Max. allowable voltage:	AC 250V DC 110V
Max. allowable current:	10A
Max. allowable power force:	1200VA 300W
Reference minimum applicable load:	DC10V 10mA
Contact material:	AgCdO

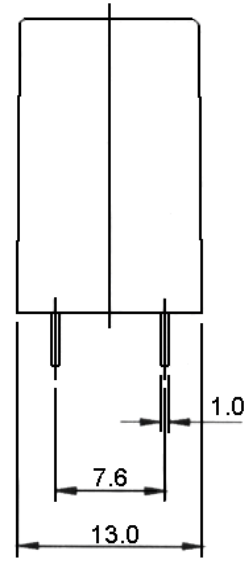
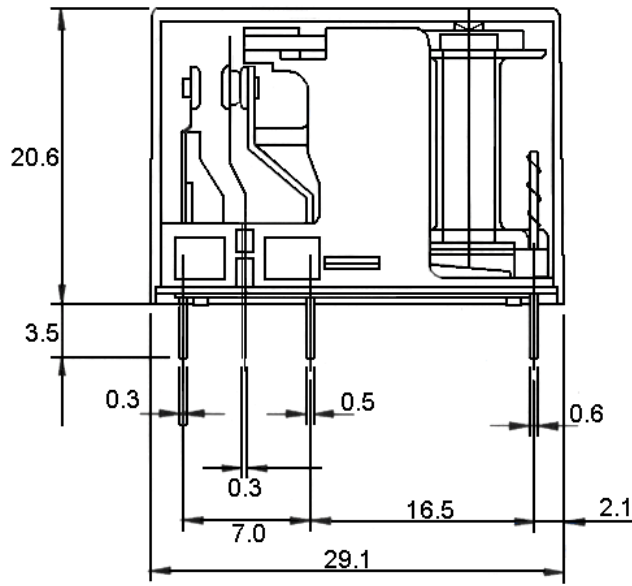
Performance (at initial value)

Contact resistance:	100mΩ max.
Operate time:	20mSec. Max.
Release time:	8mSec. Max
Dielectric strength Between coil and contact:: Between contacts:	AC 5,000V at 50/60 Hz for 1 minute AC 1,000V at 50/60 Hz for 1 minute
Surge resistance:	10,000V(between coil and contact 1x40μSec)
Insulation resistance:	100MΩ min. at 500V DC
Max. on/off switching Electrical: Mechanical:	300 operations per minute 30 operations per minute
Operating ambient temperature range:	-30° to +55°C (no condensation of water drop)
Operating humidity:	45 to 85% RH.
Coil temperature rise:	35° max. (at rated coil voltage)
Vibration Endurance: Error operation:	10 to 55Hz dual amplitude width 1.5mm 10 to 55Hz dual amplitude width 1.5mm
Life expectancy Mechanical: Electrical:	10,000,000 operations minimum 100,000 operations minimum
Weight:	13g

Reference data:



Dimensions:



Bottom view

