



## Features

- Magnetic Latching Relay
- Outline Dimension: 24mm × 10mm × 15.8mm
- 20A Magnetic latching relay
- High sensitivity 200mw
- Comply to IEC 60335-1: household and similar electrical appliances-safety
- Dielectric strength of 5000V between coil and contacts
- Main applications: Domestic appliances, Building control, Lighting control, Smart meter control

**RoHS  
Compliant**

## Specification

Contact Data		
Contact Form	1 Form A	
Contact Material	Ag Alloy	
Contact Rating	MPHKE3L: 16A 277V AC MPHKE3LT: 20A 250V AC TV-10 250V AC 10A 30V DC	
Contact Resistance	Max.100mΩ (6V DC 1A)	
Load	Max. Switching Voltage	277V AC
	Max. Switching Current	20A
	Max. Switching Power	5000VA
	Min. Switching Load	100mA 5V DC
Life	Electrical	1×10 <sup>5</sup> (16A,frequency 1s:9s) 1×10 <sup>5</sup> (20A,frequency 1s:9s) 2.5×10 <sup>4</sup> (TV-10 250V AC)
	Mechanical	1×10 <sup>6</sup> (180ops/min)
Coil Data		
Nominal Coil Power	L1 (Single coil): 0.2W L2 (Double coil): 0.4W	
General Data		
Insulation Resistance	Min.1000MΩ 500V DC	
Dielectric Strength	Between open contacts	1,000 VAC,50/60Hz,1min
	Between coil and contacts	5,000VAC,50/60Hz,1min
Operate Time	Max. 15ms	
Release Time		
Operating Temperature	-40°C to +85°C	
Humidity	5-85%RH, +40°C	
Shock Resistanc	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
Vibration Resistance	Endurance	10-55Hz,1.5mm double amplitude
	Misoperation	
Weight	Approximately 7g	

## Coil Data

Ambient Temperature: 23°C

Single coil L1

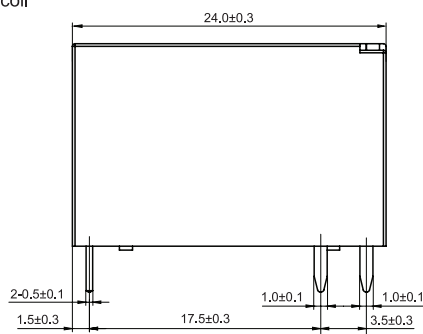
Model	Nominal Voltage V DC	Coil Resistance $\Omega$ +/-10%	Operate Voltage $\leq$ V DC	Reset Voltage $\leq$ V DC	Coil Power W
MPHKE3L-S-DC5V-A-L1	5	125	4	4	0.2
MPHKE3LT-S-DC5V-A-L1					

Model	Nominal Voltage V DC	Coil Resistance $\Omega$ +/-10%		Operate Voltage $\leq$ V DC	Reset Voltage $\leq$ V DC	Coil Power W	
	5	Set	Reset	4	4	Set	Reset
MPHKE3L-S-DC5V-A-L2		62.5	62.5			0.4	0.4
MPHKE3LT-S-DC5V-A-L2							

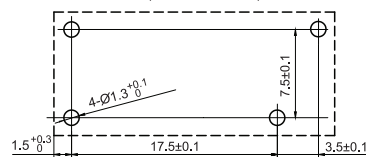
Double coil L2

## Outline, Wiring Diagram, Mounting Hole Layout

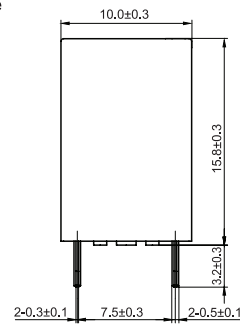
L1 - Single coil



Mounting Hole for L1  
(Bottom View)



Outline

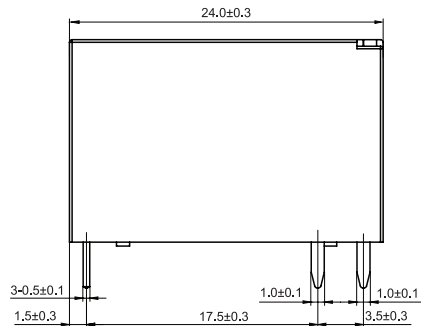


Wiring for L1  
(Bottom View)

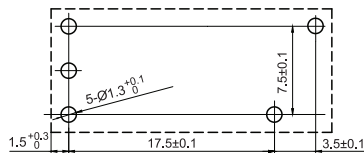


Dimensions : Millimetres

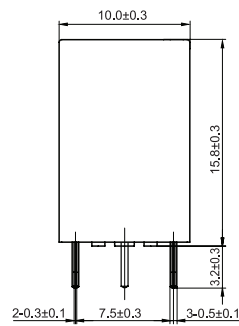
L2 - Double coil



Mounting Hole for L2  
(Bottom View)



Outline



Wiring for L2  
(Bottom View)



## Part Number Table

Description	Part Number
Power Relay, PCB Type, NO, 0.2W, 16A, 5V DC, Single Coil	MPHKE3L-S-DC5V-A-L1
Power Relay, PCB Type, NO, 0.4W, 16A, 5V DC, Double Coil	MPHKE3L-S-DC5V-A-L2
Power Relay, PCB Type, NO, 0.2W, 20A, 5V DC, Single Coil	MPHKE3LT-S-DC5V-A-L1
Power Relay, PCB Type, NO, 0.4W, 20A, 5V DC, Double Coil	MPHKE3LT-S-DC5V-A-L2

Dimensions : Millimetres

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