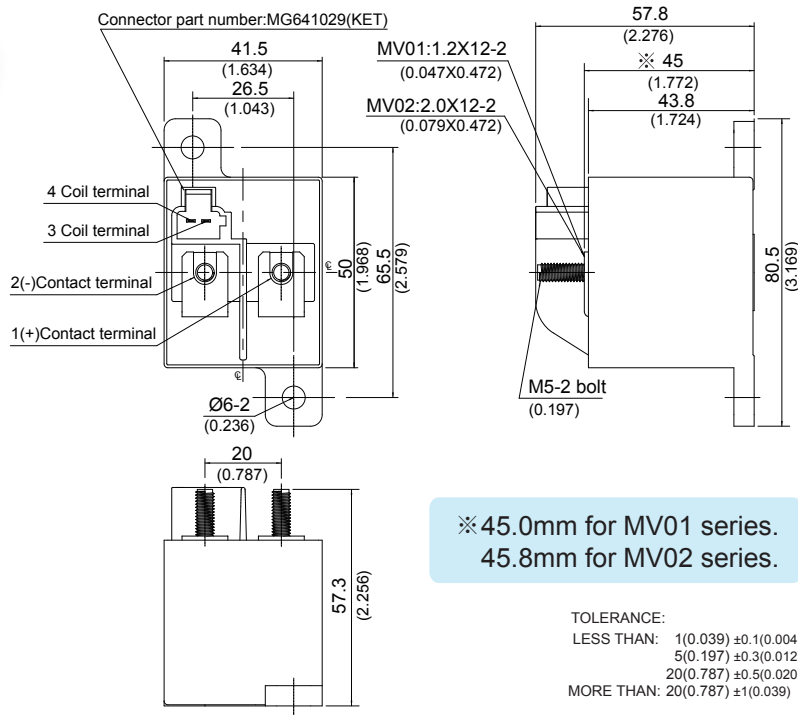


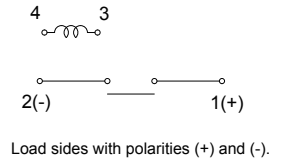
# MV01, MV02 series

## Outline Dimensions

### ◆ Screw terminal / Flanged cover (flux tight) type

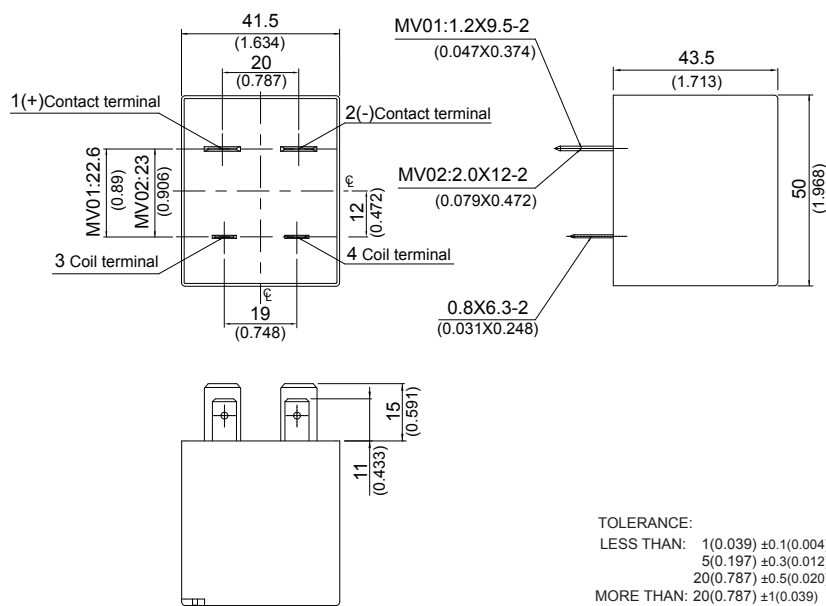
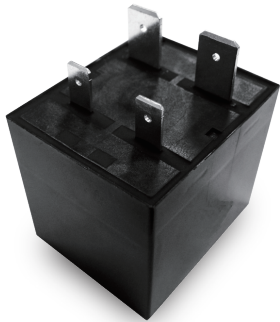


### ■ Wiring Diagram (top view)

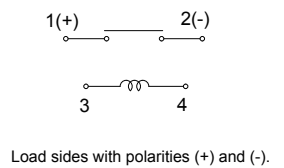


## Outline Dimensions

### ◆ Plug-in terminal / Flux tight cover type



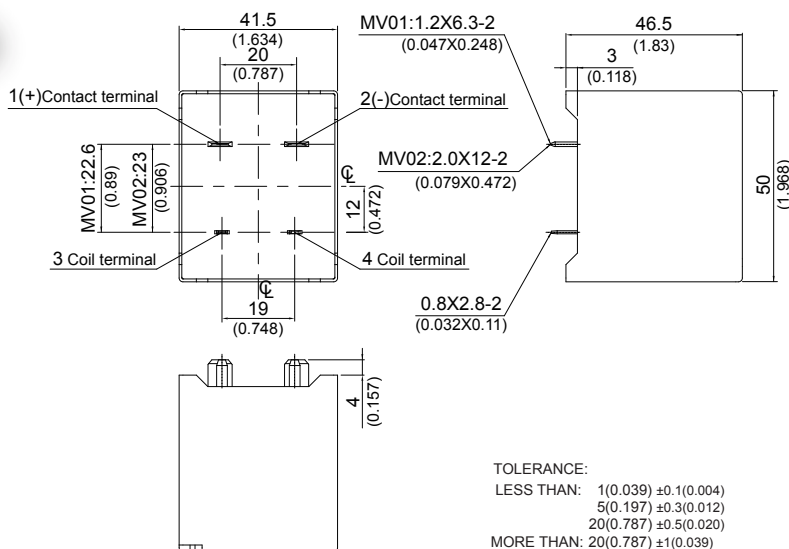
### ■ Wiring Diagram (bottom view)





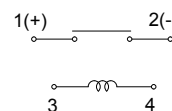
## Outline Dimensions

### ◆ PCB terminal / Flux tight cover type



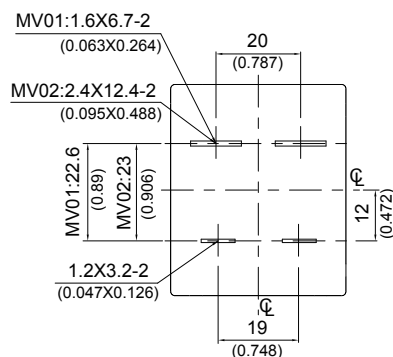
TOLERANCE:  
 LESS THAN: 1(0.039) ±0.1(0.004)  
 5(0.197) ±0.3(0.012)  
 20(0.787) ±0.5(0.020)  
 MORE THAN: 20(0.787) ±1(0.039)

### ■ Wiring Diagram (bottom view)



Load sides with polarities (+) and (-).

### ■ PC Board Layout (bottom view)



# MV01 series

## Description

Type	MV011	MV013
Contact rating (Resistive load)	100A 60VDC	100A 160VDC
Coil voltage	12~48VDC	
Power consumption	Approx. 3.2 W	
Contact material	Ag alloy	
Contact voltage drop <sup>(1)</sup>	Typ. 10 mV at 10A	
Operate time <sup>(1)</sup>	30ms Max.	
Release time <sup>(1)</sup>	30ms Max.	
Insulation resistance <sup>(1)</sup>	100MΩ Min. (DC 500V)	
Dielectric strength <sup>(1)</sup>	Between open contact	: AC 1000V, 50/60Hz 1 min.
	Between contact and coil	: AC 4000V, 50/60Hz 1 min.
Life expectancy <sup>(2)</sup>	Mechanical	1,000,000 ops. (frequency 9,000 ops./hr.)
	Electrical	1000 ops. (frequency 900 ops./hr.)   500 ops. (frequency 900 ops./hr.)
Operating ambient temperature	-40~+70° C (no freezing)	
Weight	Approx. 180 g, 185g(flanged cover)	
Terminal connection	Screw terminal; Quick terminal; Plug-in terminal; PCB terminal	

\*Note : (1) Initial value. Operate and release time excluding contact bounce.

(2) Load sides with polarities (+) and (-).

(3) To use a varistor could absorb the coil surge of relay. The life expectancy will be lower when a diode is used.

(4) Consider the heat of PCB is necessary with actual application.

(5) Please contact Song Chuan for the detailed information.

# MV02 series

Description		
Type	MV021	MV023
Contact rating (Resistive load)	150A 60VDC	150A 160VDC
Coil voltage	12~48VDC	
Power consumption	Approx. 3.2 W	
Contact material	Ag alloy	
Contact voltage drop <sup>(1)</sup>	Typ. 10 mV at 10A	
Operate time <sup>(1)</sup>	30ms Max.	
Release time <sup>(1)</sup>	30ms Max.	
Insulation resistance <sup>(1)</sup>	100MΩ Min. (DC 500V)	
Dielectric strength <sup>(1)</sup>	Between open contact : AC 1000V, 50/60Hz 1 min. Between contact and coil : AC 4000V, 50/60Hz 1 min.	
Life expectancy <sup>(2)</sup>	Mechanical	1,000,000 ops. (frequency 9,000 ops./hr.)
	Electrical	1000 ops. (frequency 900 ops./hr.) 500 ops. (frequency 900 ops./hr.)
Operating ambient temperature	-40~+70° C (no freezing)	
Weight	Approx. 180 g, 185g(flanged cover)	
Terminal connection	Screw terminal; Quick terminal; Plug-in terminal; PCB terminal	

\*Note : (1) Initial value. Operate and release time excluding contact bounce.

(2) Load sides with polarities (+) and (-) .

(3) To use a varistor could absorb the coil surge of relay. The life expectancy will be lower when a diode is used.

(4) Consider the heat of PCB is necessary with actual application.

(5) Please contact Song Chuan for the detailed information.

## Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved .