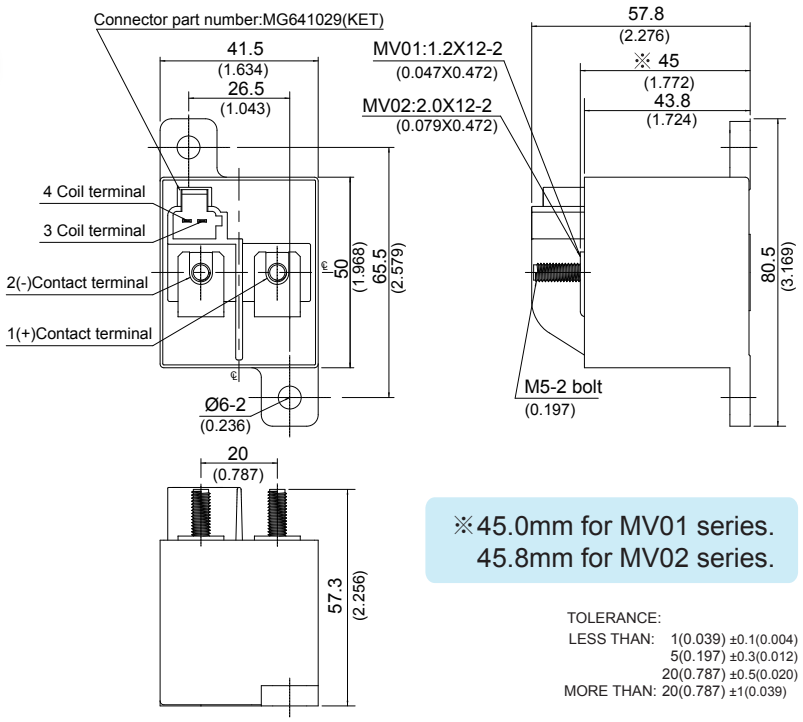
MV01, MV02 series

Outline Dimensions

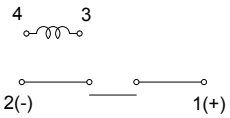
◆ Screw terminal / Flanged cover (flux tight) type



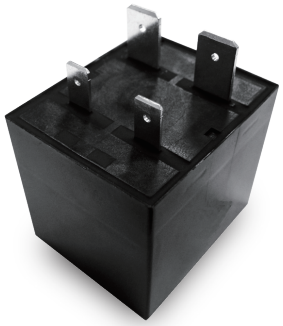
※45.0mm for MV01 series.
45.8mm for MV02 series.

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 (top view)

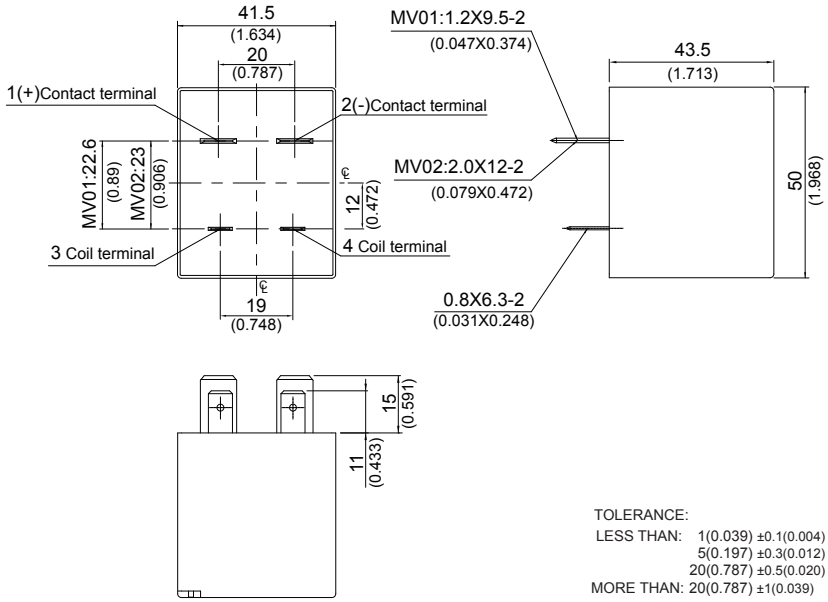


Load sides with polarities (+) and (-).



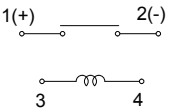
Outline Dimensions

◆ Plug-in 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)

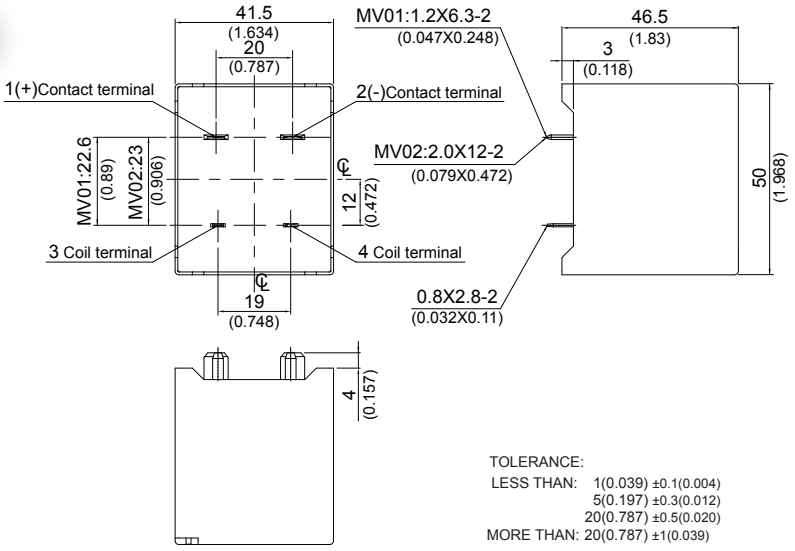
■ Wiring Diagram (bottom view)



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

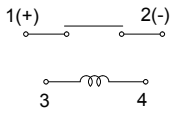
Outline Dimensions

◆ PCB terminal / Flux tight cover type



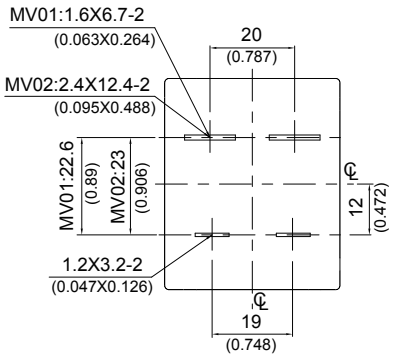
TOLERANCE:
LESS THAN: 1(0.039) ±0.1(0.004)
5(0.197) ±0.3(0.012)
20(0.787) ±0.5(0.020)
MORE THAN: 20(0.787) ±1(0.039)

■ 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 (1)		Typ. 10 mV at 10A	
Operate time (1)		30ms Max.	
Release time (1)		30ms Max.	
Insulation resistance (1)		100MΩ Min. (DC 500V)	
Dielectric strength (1)		Between open contact : AC 1000V, 50/60Hz 1 min. Between contact and coil : AC 4000V, 50/60Hz 1 min.	
Life expectancy (2)	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 (1)		Typ. 10 mV at 10A	
Operate time (1)		30ms Max.	
Release time (1)		30ms Max.	
Insulation resistance (1)		100MΩ Min. (DC 500V)	
Dielectric strength (1)		Between open contact : AC 1000V, 50/60Hz 1 min. Between contact and coil : AC 4000V, 50/60Hz 1 min.	
Life expectancy (2)	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.