

FEATURES

- 50A continuous contact rating
- 1A , 1C arrangements
- Extended temp. range up to 125°C
- Optional mounting bracket
- With transient suppression resistor available
- Plastic sealed and dust protected types available
- Environmental friendly product (ROHS compliant)

CONTACT DATA

Contact form	1A, 1C
Voltage drop (initial)	Typ.:50mV (at 10A) Max.:250mV (at 10A)
Max. continuous current ^①	NO:60A(at 23°C) NC:40A(at 85°C)
Max. switching current	50A
Electrical endurance	SEE "CONTACT DATA"
Min. contact load	1A 6VDC
Max. switching voltage	50VDC

- ① For NO contacts, measured when applying 100% rated voltage on coil.
- ② The value is measure when voltage dross suddenly from nominal voltage to 0 VDC and coil is not paralleled with suppression circuit.
- ③ When energized, release time of NO contacts shall not exceed 100us, when non-energized, release time of NO contacts shall not exceed 100us, meantime, NO contacts shall not be closed.
- ④ Test point is at 2mm away from terminal end, and after removing testing force, the terminal transfiguration shall not exceed 0.5mm.

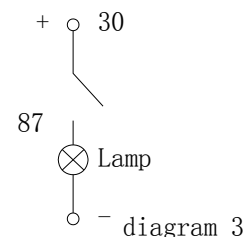
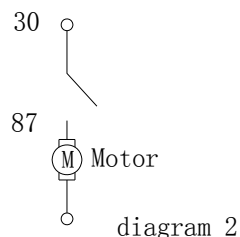
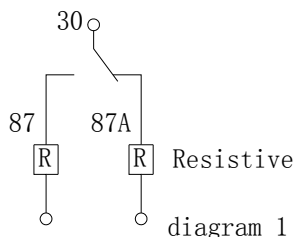
CHARACTERISTICS

Insulation resistance	100MΩ at 500VDC
Dielectric strength	500VAC
Operate time	Typ.:6ms (at nomi. Vol.) Max.:10ms (at nomi. Vol.)
Release time	Typ.:4ms Max.:7ms ^②
Vibration resistance	10 to 50Hz 1.0mmDA 50 to 500Hz, 50m/s ²
Shock resistance ^③	196m/s ²
Termination ^③	QC
Humidity	85% (at 40°C)
Ambient temperature	- 40°C to + 125°C
Life expectancy - Mechanical	1 x 10 ⁷ operations (3000OPS/min)
Mechanical data	cover retention (pull & push):200N min. terminal retention (pull & push):100Nmin. terminal resistance to bending (front & side):10N min. □

CONTACT DATA

Load Voltage	Load type		Load current A			On/Off ratio		Electrical endurance OPS	Contact material	Load wiring diagram ^①
			1C		1A	On s	Off S			
			NO	NC	NO					
13.5 VDC	Resistive	Make	50	30	50	2	2	1 x 10 ⁵	AgSnO ₂	See Diagram 1
		Break	50	30	50					
	Motor	Make ^②	150	--	150	2	4	1 x 10 ⁵	AgSnO ₂	See Diagram 2
		Break	35	--	35					
	Lamp ^③	Make	150	--	150	0.5	10	1 x 10 ⁵	AgSnO ₂	See Diagram 3
		Break	30	--	30					

- ① Corresponds to the peak inrush current on initial action (cold filament).
- ② The load in the table exclude flasher. When applied in flasher, a special silver alloy (AgSnO₂) contact material should be used and the customer special code should be (170) as a suffix. Please heed the anode and cathode's request when wired, terminal 30 should connect with anode.
- ③ The load wiring diagrams are listed below:



COIL DATA

at 23°C

	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance ×(1±5%)Ω	Parallel resistance ×(1±5%)Ω	Equivalent Resistance Ω	Power Consumption W	Max.allowable Overdrive Voltage VDC	
								23°C	85°C
Standard	6	3.6	0.6	22.5	---	---	1.6	10	9
	6	3.6	0.6	22.5	180	20	1.8	9	9
	12	7.2	1.2	90	---	---	1.6	21	18
	12	7.2	1.2	90	680	79.5	1.8	18	18
	24	14.4	2.4	360	---	---	1.6	43	34
	24	14.4	2.4	360	2700	317.6	1.8	36	34
High power consumption	6	3.6	0.6	18	---	---	2.0	9	7
	6	3.6	0.6	18	180	16.4	2.2	9	7
	12	7.2	1.2	72	---	---	2.0	19	14
	12	7.2	1.2	72	680	65.1	2.2	18	14
	24	14.4	2.4	288	---	---	2.0	39	28
	24	14.4	2.4	288	2700	260.2	2.2	36	28

MEV4B

MASSUSE RELAY

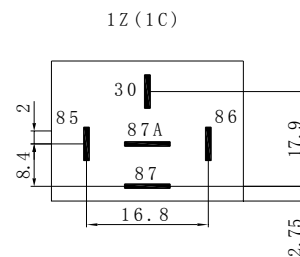
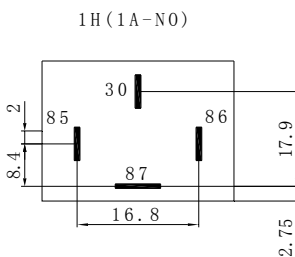
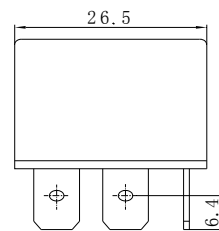
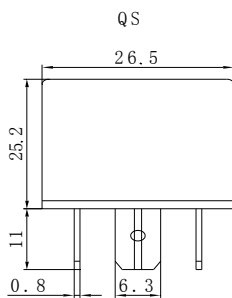
ORDERING INFORMATION

MEV4B - 012 - 1H 1 G S R

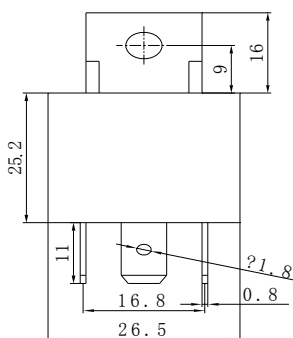
Model No.	Coil Voltage	Contact Form	Version	Contact Rating	Construction	Parallel resistor
MEV4B	006VDC 012VDC 024VDC	1H: 1A 1Z: 1C	1: QC Terminal 4: Plastic shrouded +QC Terminal 6: Metal shrouded +QC Terminal	Nil: Standard G: High capacity	Nil: Dust protected S Plastic sealed	Nil: Without parallel components R: Parallel transient suppression resistors D: Parallel transient suppression diode, with anode connected to terminal#85 D1: Parallel transient suppression diode, with anode connected to terminal#86

Dimensions(unit:mm)

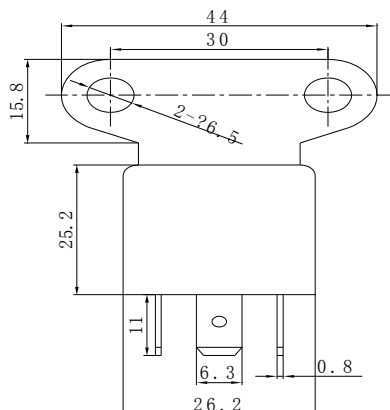
Tolerance:±0.3



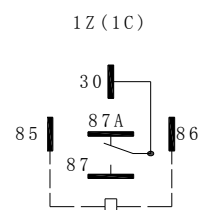
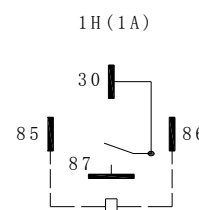
Plastic Shrouded



Metal Shrouded

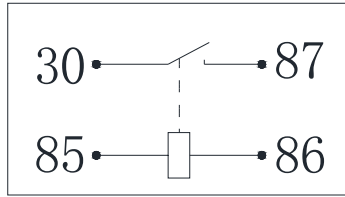


Wiring Diagrams

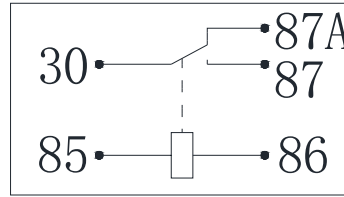


Wiring Diagrams

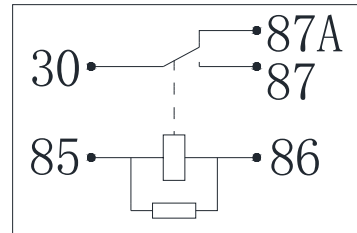
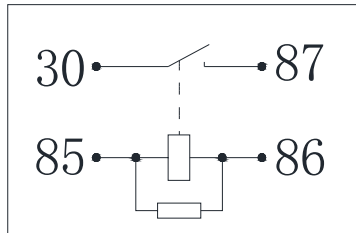
1A



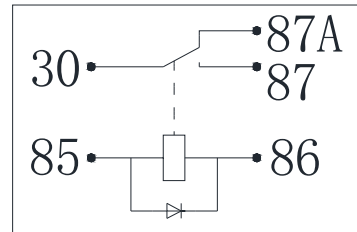
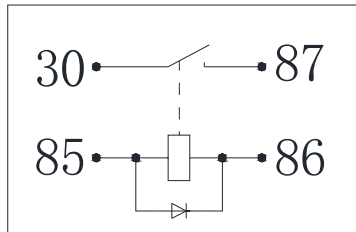
1C



TYPE:R



TYPE:D



TYPE:D1

