



## FEATURES

- 2 Form C configuration
- High switching capacity:125VA/60W
- Matching 16 pin IC socket
- Epoxy sealed for automatic-wave soldering and cleaning
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (20.2 x 10.0 x 11.5) mm

## CONTACT DATA

Contact arrangement	2C
Contact resistance	50mΩ
Contact material	AgNi      Au plated
Contact rating (Res. load)	2A 30VDC, 1A 125VAC
Max. switching voltage	125VAC 30VDC
Max. switching current	2A
Max. switching power	125VA / 60W
Min. applicable load	10mV 10μA
Mechanical endurance	1x10 <sup>6</sup>
Electrical endurance	1x10 <sup>5</sup> (2A 30VDC) 3x10 <sup>6</sup> (1A 30VDC)

## CHARACTERISTICS

Insulation resistance	1000MΩ (500VDC)	
Dielectric strength	Between coil&contacts	1500VAC 1 min
	Between open contacts	M, S型: 1000VAC 1min    H型: 750VAC 1min
Operate time (at normal.volt.)	≤7ms	
Release time (at normal.volt.)	≤4ms	
Ambient temperature	-40°C ~ 85°C	
Humidity	5%~85% RH	
Vibration resistance	10Hz ~ 55Hz 1.5mm	
Shock resistance	Functional	200m/s <sup>2</sup> (20g)
	Destructive	1000m/s <sup>2</sup> (100g)
Termination	(PCB)	
Unit weight	5g	
Construction	Sealed	

## COIL DATA

at 23°C

### Standard (280 ~ 580mW)

Order Number	Coil Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable voltage VDC	Coil Resistance Ω
003-M	3	2.25	0.3	4.5	30 x (1±10%)
005-M	5	3.75	0.5	8.0	90 x (1±10%)
006-M	6	4.50	0.6	10.0	130 x (1±10%)
009-M	9	6.80	0.9	14.5	280 x (1±10%)
012-M	12	9.00	1.2	18.5	450 x (1±10%)
015-M	15	11.3	1.5	22.0	625 x (1±10%)
024-M	24	18.0	2.4	35.5	1600 x (1±10%)
048-M	48	36.0	4.8	56.0	4000 x (1±10%)

### Sensitive (200mW)

Order Number	Coil Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable voltage VDC	Coil Resistance Ω
003-S	3	2.25	0.3	6	45 x (1±10%)
005-S	5	3.75	0.5	10	125 x (1±10%)
006-S	6	4.50	0.6	12	180 x (1±10%)
009-S	9	6.80	0.9	18	405 x (1±10%)
012-S	12	9.00	1.2	24	720 x (1±10%)
015-S	15	11.3	1.5	30	1125 x (1±10%)
024-S	24	18.0	2.4	48	2880 x (1±10%)

### COIL DATA

Order Number	High Sensitive(150mW)					Coil Resistance Ω
	Coil Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable voltage VDC	at 23°C	
003-H	3	2.4	0.3	7.0	60 x (1±10%)	
005-H	5	4.0	0.5	11.5	167 x (1±10%)	
006-H	6	4.8	0.6	13.8	240 x (1±10%)	
009-H	9	7.2	0.9	20.8	540 x (1±10%)	
012-H	12	9.6	1.2	27.7	960 x (1±10%)	
015-H	15	12.0	1.5	34.6	1500 x (1±10%)	
024-H	24	19.2	2.4	55.2	3840 x (1±10%)	

### COIL

Coil power	Standard 280~580mW	Sensitive 200mW	High Sensitive 150mW
Temperature rise	≤65K		

### ORDERING INFORMATION

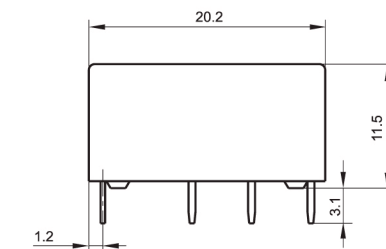
Type	MCB -S- 2 12 -C H
Construction	S:sealed
Contact group	2:2 groups
Coil voltage	3~24VDC
Contact arrangement	C:NO/NC
Coil power	H:HighSensitive type(150mW) S:Sensitive type(200mW) M:Standard type(280-580mW)

### APPROVALS

Approvals	UL	TÜ V
rating	1A 125VAC 3A 30VDC	1A 125VAC 3A 30VDC

### OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions



Wiring Diagram(Bottom view)

PCB Layout (Bottom view)

