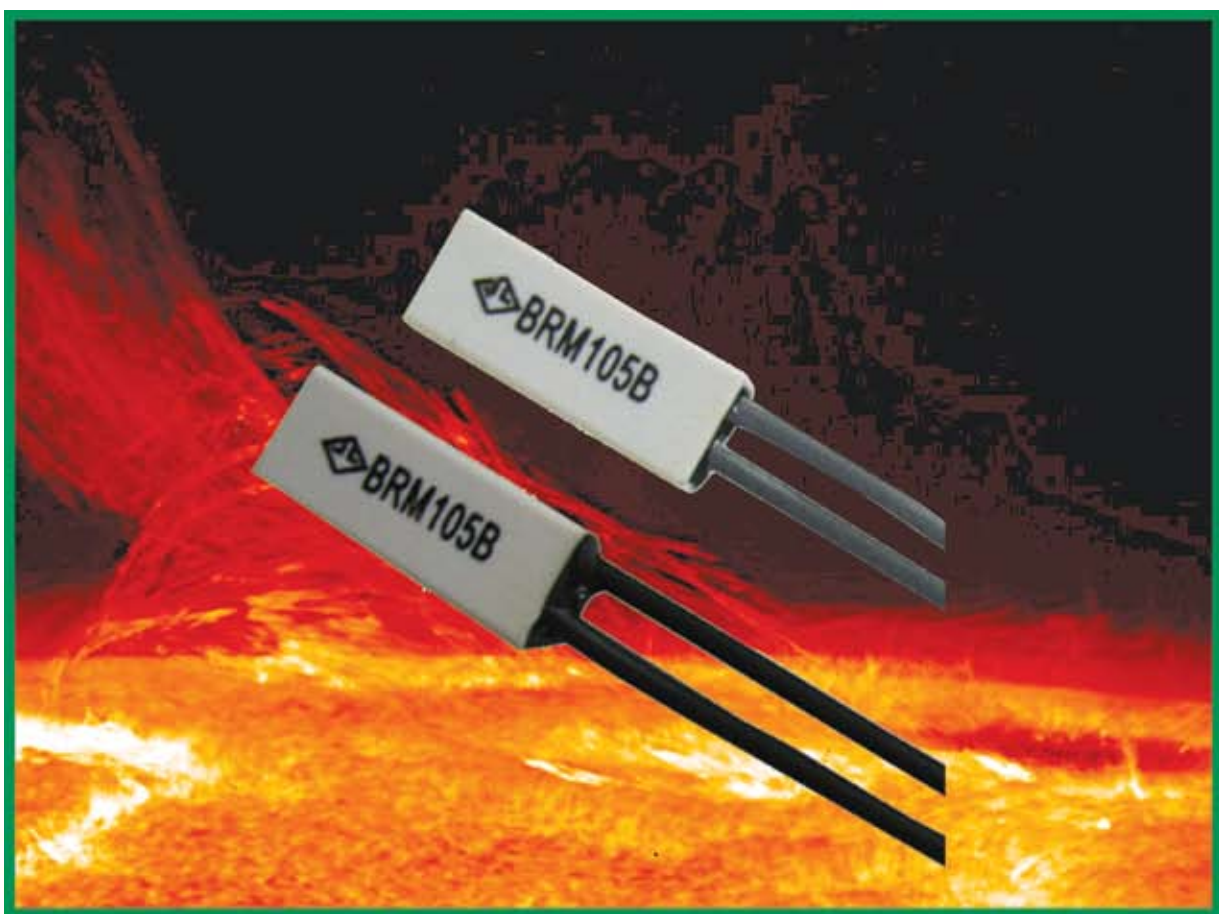


# ELITAVIA

## PROTEZIONI TERMICHE



## CATALOGO PT-14

# 17AMJ / 17AMJ+PTC series thermal protector

## • Structure characters

17AMJ series thermal protector (snap-action type) is made by automatic equipments. It is sensitive in action and precision in temperature control with small size, insulated case, enclosed structure.

17AMJ+PTC (self-holding device) basing on 17AMJ with a heating element will be more safe and trustable in product performance.

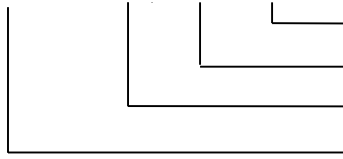
## • Application

17AMJ thermal protector protects against overheating & over-current in various motors, transformers, ballasts, office electric device, house-using electric device, automotive motors.

## • parameters

Type and coding

17AMJ \*\*\* A 5



tolerance of action temperature  
terminal type  
code of action temperature type

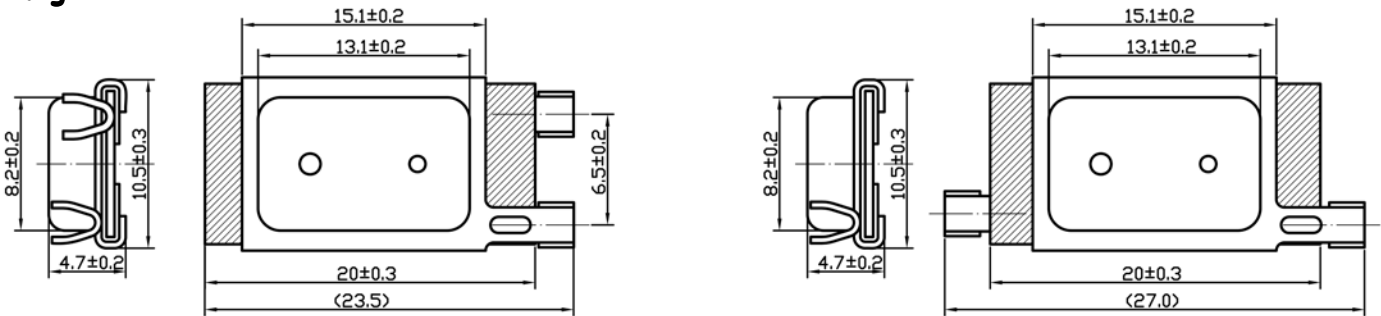
Open temperature: 45°C~160°C (according to customer's requirement)

Tolerance: ±5°C

Rated voltage & current: DC16V/22A, AC115V/22A, AC240V/8A



Figure



## list of type and its temperature

type	Action temperature(degC)	Reset temperature(degC)	type	Action temperature(degC)	Reset temperature(degC)
17AMJ-016A5	45±5	≥30	17AMJ-028A5	105±5	67±15
17AMJ-017A5	50±5	≥30	17AMJ-029A5	110±5	70±15
17AMJ-018A5	55±5	≥30	17AMJ-030A5	115±5	73±15
17AMJ-019A5	60±5	≥30	17AMJ-031A5	120±5	76±15
17AMJ-020A5	65±5	≥30	17AMJ-032A5	125±5	79±15
17AMJ-021A5	70±5	51±15	17AMJ-033A5	130±5	83±15
17AMJ-022A5	75±5	53±15	17AMJ-034A5	135±5	86±15
17AMJ-023A5	80±5	55±15	17AMJ-035A5	140±5	90±15
17AMJ-024A5	85±5	57±15	17AMJ-036A5	145±5	94±15
17AMJ-025A5	90±5	59±15	17AMJ-037A5	150±5	96±15
17AMJ-026A5	95±5	62±15	17AMJ-038A5	155±5	103±15
17AMJ-027A5	100±5	64±15	17AMJ-039A5	160±5	106±15

## Certification:

UL: E189924 TUV: 50155240 DIN: 50159213

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# BRM series thermal protector

## Structure characters

BRM series thermal protector (snap-action type) with nation patent is made by automatic equipments. It is sensitive to temperature with small size, insulated case, enclosed structure

## Applications

BRM series thermal protectors are widely used for over-temperature in electric elements, fractional horsepower motor, fluorescent ballast, transformer, PCB, Sodium Lamps, metal halide rectifier etc.

## Parameters

Rated voltage: AC250V, DC24V

Rated current: 5A

Open temperature:  $45^{\circ}\text{C} \sim 120^{\circ}\text{C} \pm 5^{\circ}\text{C}$  (According to customer's requirement)

Mark:

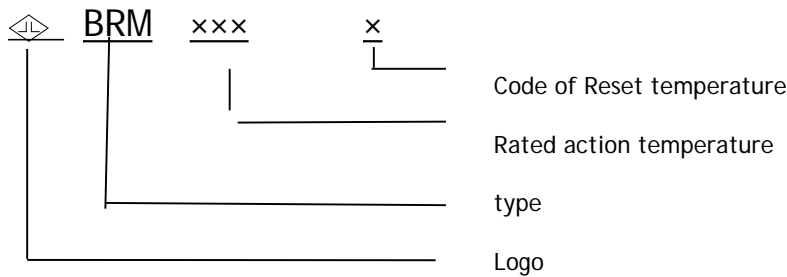


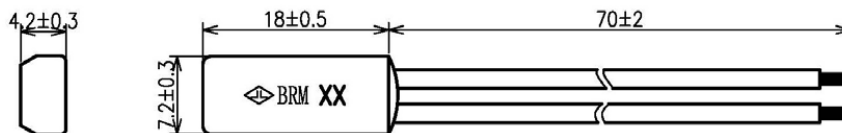
Table: code of reset temperature (for reference)

Action temperature	$45 \pm 5^{\circ}\text{C}$	$50 \pm 5^{\circ}\text{C}$	$55 \pm 5^{\circ}\text{C}$	$60 \pm 5^{\circ}\text{C}$	$65 \pm 5^{\circ}\text{C}$	$70 \pm 5^{\circ}\text{C}$	$75 \pm 5^{\circ}\text{C}$	$80 \pm 5^{\circ}\text{C}$
Code of Reset temperature	D	D	D	D	D	C	C	C
Action temperature	$85 \pm 5^{\circ}\text{C}$	$90 \pm 5^{\circ}\text{C}$	$95 \pm 5^{\circ}\text{C}$	$100 \pm 5^{\circ}\text{C}$	$105 \pm 5^{\circ}\text{C}$	$110 \pm 5^{\circ}\text{C}$	$115 \pm 5^{\circ}\text{C}$	$120 \pm 5^{\circ}\text{C}$
Code of Reset temperature	C	C	B	B	B	A	A	A

Code of Reset temperature (for reference):

Code for reset temperature	Rang of reset temperature	Code for reset temperature	Rang of reset temperature
A	$45^{\circ}\text{C}$ lower than action temperature with tolerance of $15^{\circ}\text{C}$	B	$35^{\circ}\text{C}$ lower than action temperature with tolerance of $15^{\circ}\text{C}$
C	$25^{\circ}\text{C}$ lower than action temperature with tolerance of $15^{\circ}\text{C}$	D	Reset temperature larger than $35^{\circ}\text{C}$

Figure



## Certification:

UL: E309606 TUV: 50155242 DIN: 50157307.

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# BRMZ self-hold thermal protector


## Structure characters

BRM self-holding device basing on BRM series with a heating element will be more safe and trustable in product performance. Only after power off and temperature down to reset temperature, product will reset.

## Applications

BRMZ SERIES protect against overheating & over-current in electric elements, fractional horsepower motor, fluorescent ballast, transformer, PCB, Sodium Lamps, metal halide rectifier etc.

## Parameters

mark:  BRMZ xxx



Rated action temperature  
type  
logo

Rated voltage: AC250V, DC24V

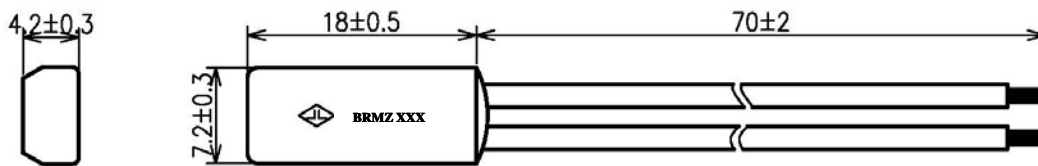
Rated current: 5A

Open temperature: 45°C ~ 120°C ± 5°C (According to customer's requirement)

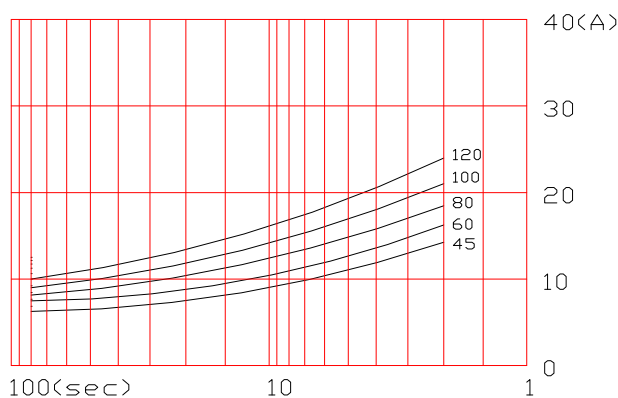
Reset temperature: PLS refer to reset temperature of BRM SERIES



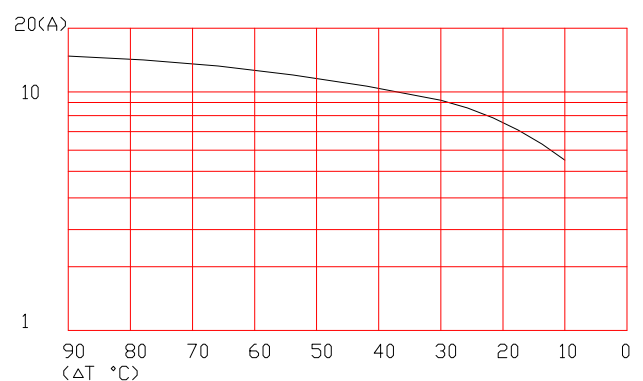
## Figure



Curve for current VS trip time



Curve for current VS temperature



$$\Delta T = T1 - T2$$

**T1: action temperature**

**T2: ambient temperature**

Jiangyin Jingmi Electric Appliance Co., Ltd.

# J6AP series current&temperature protector

## Structure characters

J6AP SERIES thermal protector with double protection of current and temperature is snap-action protector. It's heart part is sensitive bimetal. when larger current than normal passes bimetal of the protector to make the temperature reaches to preset temperature, bimetal will snap to cut off the circuit, then to protect appliance in circuit

## Application:

J6AP Series are widely used for protection against over current and over temperature in auto motor such as window motor, wiper motor, adjusting seat motor, lock motor etc. and other low-voltage appliance.

## parameters

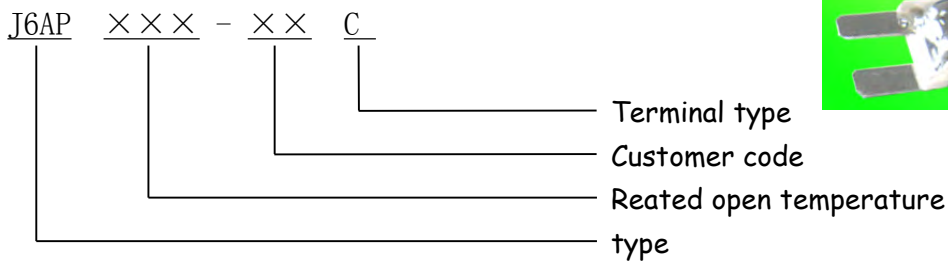
Open temperature:  $50C \sim 160C \pm 8C$  (according to customer's requirement)

Contact capacity: DC30V/15A DC15V/30A

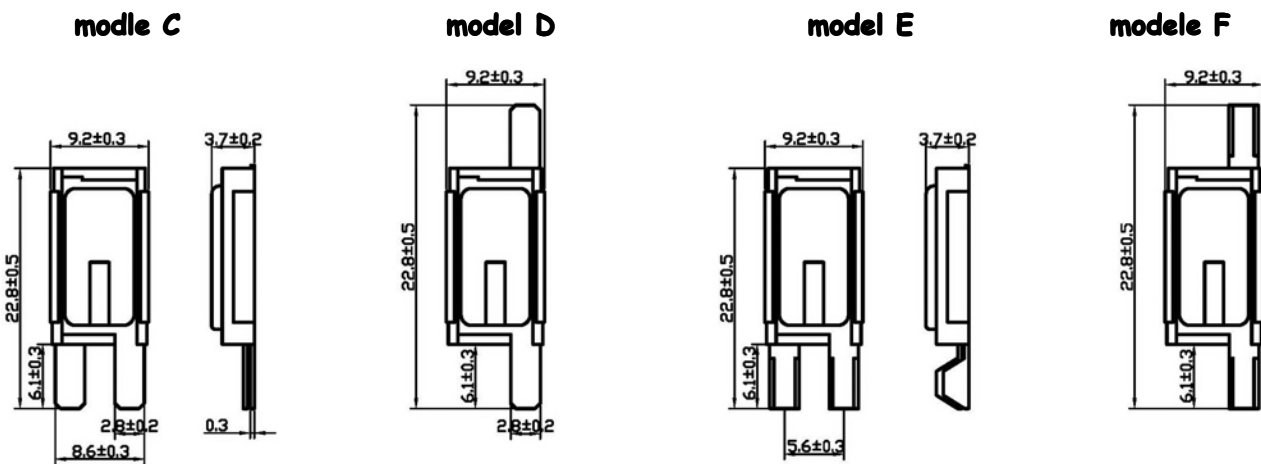
Trip current: 3~30A (according to customer's requirement)

Trip time: 4S~10S (under ambient temperature of 25C)

Mark:



## figure



# J8AMP series current protector

## Structure characters:

J8AMP series with big contact capacity are snap-action thermal protector against over temperature and over current.

## Application :

J8AMP series are widely used against over current and over temperature in AC & DC motor (especially large power), Sodium Lamps, metal halide rectifier, fluorescent ballast, transformer, house-holding appliance.

## Parameters:

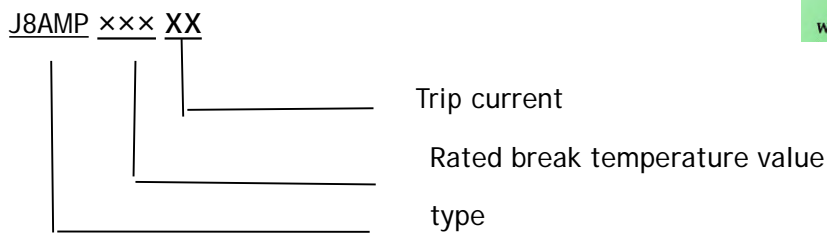
Rated voltage: AC250V, DC24V (according to customer's requirement)

Trip current: 20A~60A (according to customer's requirement)

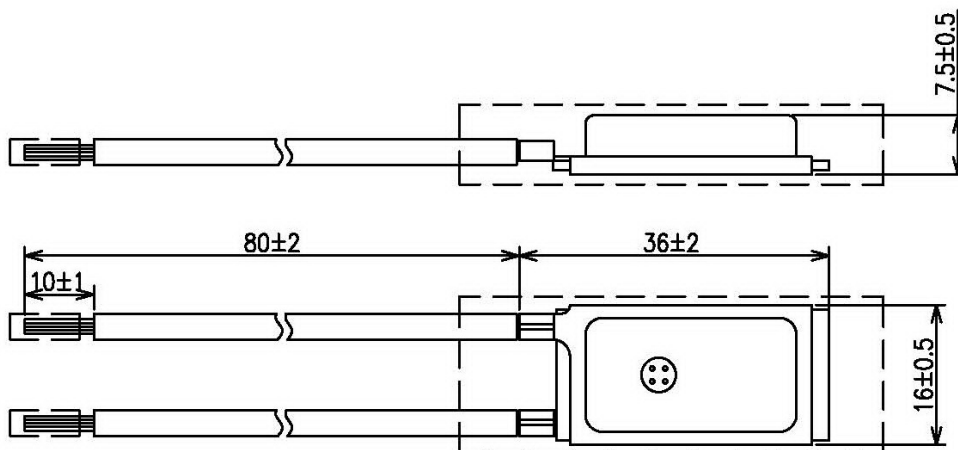
Trip time: 4S~10S (under ambient temperature of 25C)

Open temperature: 80°C~160°C  $\pm 8^{\circ}\text{C}$  (according to customer's requirement)

Mark:



## Figure:



# JRM series thermal protector

## Structure characters

JRM series thermal protectors are sensitive to temperature changing. The high quality bimetal is key element in product. They are enclosed by metal case and will reset themselves.

JRMZ (self-holding device) basing on JRM series with a heating element will be more safe and trustable in product performance.

## Applications

JRM series thermal protectors are not only widely used for production in DC electrical tools, miner's lamp, PC, interphone and rechargeable battery in vidicon, but also can be used for temperature control in medical tools, house-holding machine and some low-voltage electric machine.

## Parameters

Action temperature:  $-20^{\circ}\text{C} \sim 150^{\circ}\text{C}$  (According to customer's requirement)

Reset temperature:  $2^{\circ}\text{C}$  lower than action temperature

Use condition:  $-20^{\circ}\text{C} \sim 200^{\circ}\text{C}$  (According to customer's requirement)

Rated voltage: DC24V、AC120V

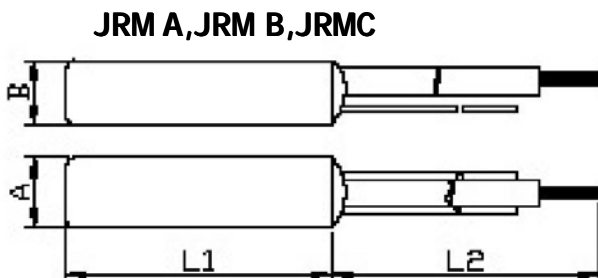
Rated current: 2A、3A、6A (According to customer's requirement)

**Table for contact capacity of JRMA, JRMB & JRMC**

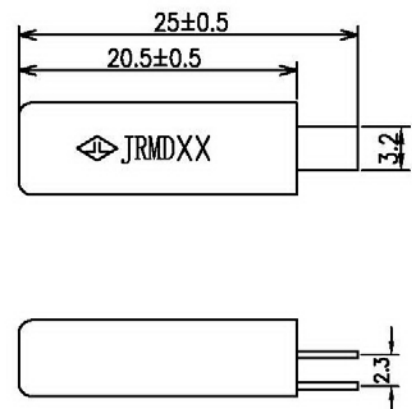
Type	Rated current	Rated voltage	Endurance life
JRM A	2A	DC24V、AC120V	10000 cycles
JRM B	3A	DC20V、AC120V	6000 cycles
JRM C	2A	DC24V、AC120V	10000 cycles
JRM D	6A	DC24V、AC120V	100000 cycles



**Figure:**



**JRMD**



**Table for dimension of JRM series**

Figure (mm) Type	A	B	L1	L2
<b>JRM A</b>	$5.3 \pm 0.2$	$4 \pm 0.2$	$15.8 \pm 1$	Leads wires can be according customer's requirement
<b>JRM B</b>	$5.7 \pm 0.2$	$4.5 \pm 0.2$	$18 \pm 1$	Leads wires can be according customer's requirement
<b>JRM C</b>	$4.8 \pm 0.2$	$2.4 \pm 0.2$	$16 \pm 1$	Leads wires can be according customer's requirement
<b>JRM D</b>	$6.8 \pm 0.2$	$5.5 \pm 0.2$	$20.5 \pm 1$	Leads wires can be according customer's requirement

## Certification:

UL: E189924      TUV: 50103015      DIN: 50151708

**Jiangyin Jingmi Electric Appliance Co., Ltd.**

# BRMS series thermal protector

## Structure characters:

BRMS thermal protector series that are snap-action type and used for protection against over current and over temperature are made by automatic machines. They are small in size(14\*5.8\*2.2mm), long endurance life and sensitive to temperature and current.

## Application:

Notebook battery pack, mobil battery pack, power tool battery pack, electrical device and house-hold appliance

## Parameters:

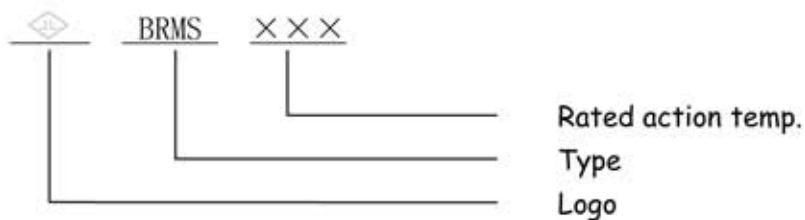
Open temperature:  $45C \sim 100C \pm 5C$  (According to customer's requirement)

Rated voltage: DC 24V

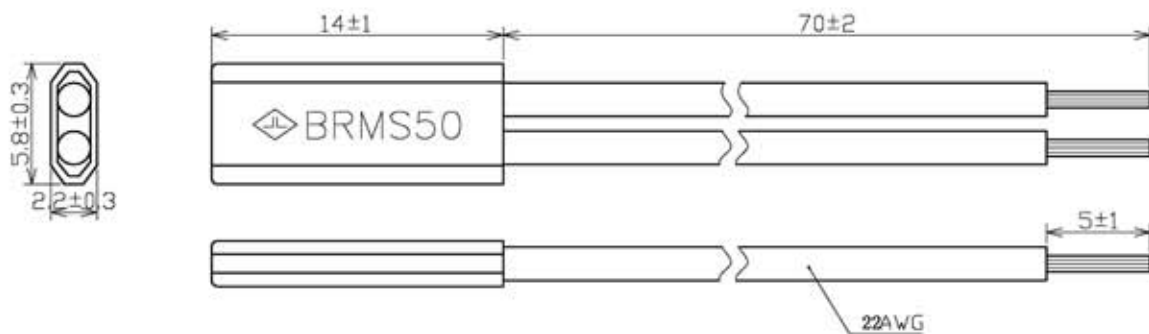
Rated current: 4A

Life endurance: 10000 cycles under rated condition

Mark:



## Figure:



Ps. Leads wires or nickel strip can be according customer's requirement.