



RT14, RT18 Series Powder-filled Cartridge Fuse

Installation and Operation Instruction

Before installing and using the product,
please read the instruction carefully and
well keep it for future reference.

Product Certificate

This product has passed the inspection and
meets the requirements of GB/T13539.1 and
GB/T13539.2, and therefore is allowed to
leave the factory.

Inspector:



Date of inspection: See the
product or packaging.

Huanyu Group Zhejiang High-tech Co., Ltd.

1 Scope

The RT14, RT18 Series Powder-filled Cartridge Fuse (hereinafter referred to as “fuse”) is suitable for the line overload and short-circuit protections in the distribution equipment of industrial electrical devices with AC 50 Hz, rated voltage of 380 V and rated current of 63 A or below.

Standards followed: GB/T 13539.1 and GB/T 13539.2.

2 Service Conditions

2.1 Ambient air temperature: The average temperature within 24 hours shall not exceed +35°C at -5°C ~ +40°C.

2.2 Altitude: Not higher than 2,000 m.

2.3 Relative humidity: Relative humidity shall not be higher than 50% at 40°C. A higher relative humidity is allowed at a lower temperature. The average maximum relative humidity of the wettest month can be up to 90%, and the average minimum temperature of that month is 25°C. The condensation that occurs on the product surface due to temperature changes shall also be considered.

2.4 Contamination grade: Grade 3.

2.5 Installation category: III.

2.6 Installation conditions: According to the requirements of the operation instruction (negotiation between the supplier and the customer under special conditions).

2.7 Voltage: The maximum system voltage shall not exceed 110% of the rated voltage of the fuse.

3 Model Description



Rated current of the fuse link (A)

Fuse striker ("0" means not available; "1" means available)

Signal device (X means with indicator light; no X means without indicator light)

Rated current of the fuse holder

Design code (14,18: Cylindrical cap)

Powder-filled cartridge fuse

(Note: No signal devices for the RT14 series)

4 Type and Basic Parameters

4.1 Type

The fuse consists of a fuse link and a fuse holder or a base.

4.2 Classification

4.2.1 The fuse can be divided into:

- a) Cylindrical cap fuse link with fuse striker.
- b) Cylindrical cap fuse link without fuse striker.

4.2.2 Breaking range

"g" fuse link (fuse link with full-range breaking capacity).

4.2.3 Use category

"G" general purpose fuse link.

4.3 Basic parameters

See Table 1 for the basic parameters of the fuse.

Table 1 Basic parameters of the fuse

| Model | Rated voltage (V) | Rated current (A) | | Rated breaking capacity | | Rated power (W) | |
|------------|-------------------|-------------------|--|-------------------------|---------|--|--|
| | | Fuse holder | Fuse link | I ₁ (KA) | COSΦ | Rated receiving power of the fuse holder | Rated power dissipation of the fuse link |
| RT14-20 | 380 | 20 | 2, 4, 6, 10, 16, 20 | 100 | 0.1~0.2 | ≥3 | ≤3 |
| RT14-32 | | 32 | 2, 4, 6, 10, 16, 20, 25, 32 | | | ≥5 | ≤5 |
| RT14-63 | | 63 | 10, 16, 20, 25, 32, 40, 50, 63 | | | ≥9.5 | ≤9.5 |
| RT18-32(X) | | 32 | 2, 4, 6, 8, 10, 16, 20, 25, 32 | | | ≥3 | ≤3 |
| RT18-63(X) | 660 | 63 | 2, 4, 6, 8, 10, 16, 20, 25, 32, 40, 50, 63 | | | ≥5 | ≤5 |

5 Outline and Installation Dimensions

5.1 Outline dimensions of the fuse link: As specified in Figure 1 and Table 2.

The ejection size K of the fuse striker in the figure below is 7 mm.

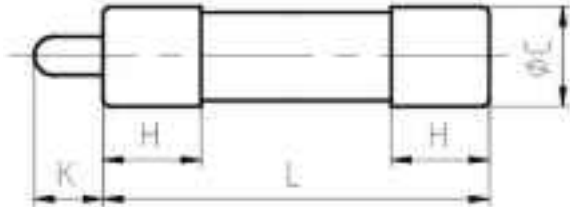


Figure 1 Outline dimensions of the fuse link

Table 2 Outline dimensions of the fuse link

| Model | Current (A) | Size | L(mm) | H max(mm) | ΦC(mm) |
|------------|-------------|-------|-------------|-----------|------------|
| RT14-20 | 20 | 10×38 | 38 ± 0.6 | 10.5 | 10.3 ± 0.1 |
| RT14-32 | 32 | 14×51 | 51(-1~+0.6) | 13.8 | 14.3 ± 0.1 |
| RT14-63 | 63 | 22×58 | 58(-2~+0.1) | 16.2 | 22.2 ± 0.1 |
| RT18-32(X) | 32 | 10×38 | 38 ± 0.6 | 10.5 | 10.3 ± 0.1 |
| RT18-63(X) | 63 | 14×51 | 51(-1~+0.6) | 13.8 | 14.3 ± 0.1 |

5.2 Outline and installation dimensions of the fuse holder: As specified in Figures 2~5 and Table 3.

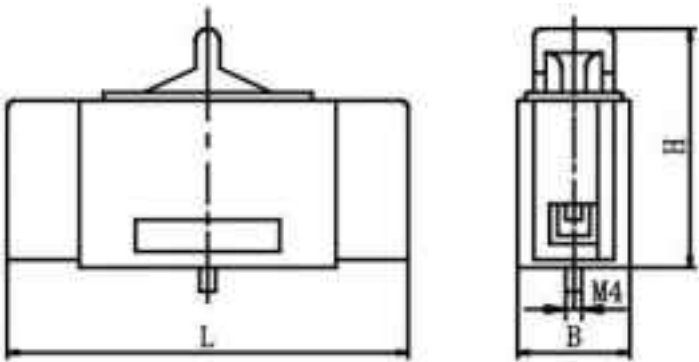


Figure 2 RT-20 Screw Fixed Holder

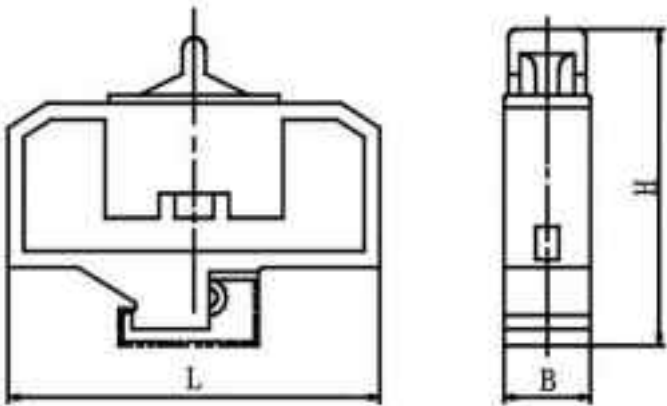


Figure 3 RT14-20 Mounting Rail Fixed Holder

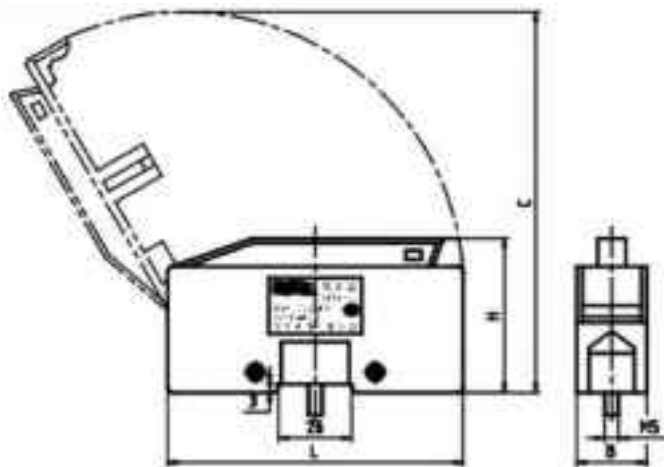


Figure 4 RT14-32, 63 Screw Fixed Holder

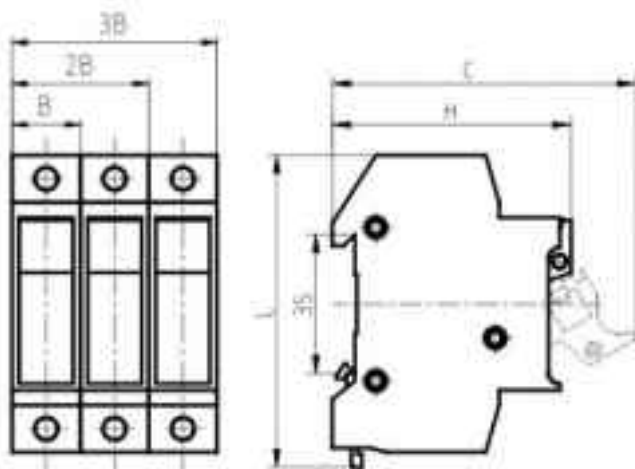


Figure 5 RT18-32, 63 Holder

Table 3 Outline and installation dimensions of the fuse holder mm

| Model | Outline and installation dimensions | | | | Installation mode |
|---------|-------------------------------------|-------|-------|-------|-------------------------------------|
| | L max | B max | H max | C max | |
| RT14-20 | 70 | 22 | 50 | - | Screw fixed |
| | 85 | 22 | 70 | - | G32-15 mounting rail fixed type |
| RT14-32 | 107 | 25 | 55 | 138 | Screw fixed |
| RT14-63 | 127 | 35 | 70 | 160 | |
| RT18-32 | 82 | 18 | 61.5 | 81.5 | TH35-7.5 mounting rail installation |
| RT18-63 | 106 | 26 | 107 | 79 | |

6 Use and Maintenance

- 6.1 The fuse can be installed vertically, horizontally, or obliquely.
- 6.2 See Table 4 for the cross-section area of the fuse connecting conductor.

Table 4 Cross-section area of the fuse connecting conductor

| Rated current, A | Cross-section area, mm ² | Rated current, A | Cross-section area, mm ² |
|------------------|-------------------------------------|------------------|-------------------------------------|
| 2, 4, 6 | 1 | 32 | 6 |
| 10 | 1.5 | 40, 50 | 10 |
| 16, 20 | 2.5 | 63 | 16 |
| 25 | 4 | | |

6.3 When the fuse is installed, the clearance and creepage distance shall not be less than 5.5 mm.

6.4 The fuse link must be replaced with a new one with the same model and size when blown, and the copper wire shall not be used instead for safety. When replacing the fuse link, please pay attention to removing the dust and other dirt on the base.

6.5 Please submit the defects and problems found by users in the use of products to the manufacturer in time.

7 Ordering Information

Please indicate the model and quantity of the fuse and the rated current, rated voltage, quantity and number of poles of the fuse link when ordering. E.g. RT18-6 Fuse, with rated current of 40 A, no signal device, and 100 sets, being denoted by RT18-63/40A 100 sets.

Company Commitment

On the premise that users abide by the use and storage conditions and that the product seals are intact, if the product is damaged or cannot be used normally due to manufacturing quality problems within 18 months from the production date of the product, our company will be responsible for the repairing or replacement free of charge. If the warranty period expires, users shall pay for the repair. However, if the damage is caused by the following circumstances, the fees for repair still shall be charged even within the warranty period:

- (1) Misuse, self-modification, improper maintenance, etc.
- (2) Use beyond the standard specification requirements.
- (3) Falling, damage during transportation, etc. after purchase.
- (4) Earthquake, fire, lightning strike, abnormal voltage, other natural disasters and secondary disasters, etc.

In case of any questions, please contact the dealer or our customer service department.

Dear customers:

To protect our environment, please recycle the product or its components when the product is scrapped. For materials that cannot be recycled, please handle them properly. Thank you very much for your cooperation and support.

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Switchboard: 0577-62889999

Fax: 0577-62885588

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