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Surface Mount Fuse with Clip, 4.2 x 11.3 mm, Quick-Acting F, UMK 250 = UMF 250 (Au) + UMC 250

new



IEC 60127-4 · 250 VAC · 125 VDC · Quick-Acting F



### Description

- VDE/UL Approvals, UMF 250, UMF 250 (Au), UMC 250, see variants
- High breaking capacity of up to 200 A @ 250 VAC
- UL approval for 0.05 A - 4 A @ 250 VAC and 125 VDC

### Standards

- IEC 60127-4/2, IEC 60127-6
- UL 248-14 / 4248-1
- CSA C22.2 no. 248.14 / no. 4248.1

### Approvals

- Approval Reference Type: UMK 250
- VDE Certificate Number: 40027880 / 40023291
- UL File Number: E41599

### Applications

- Primary protection on SMD PCBs

### References

[Packaging Details](#)  
Fuse Kit [Fuse Kit UMF 250 / UMK 250](#)

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

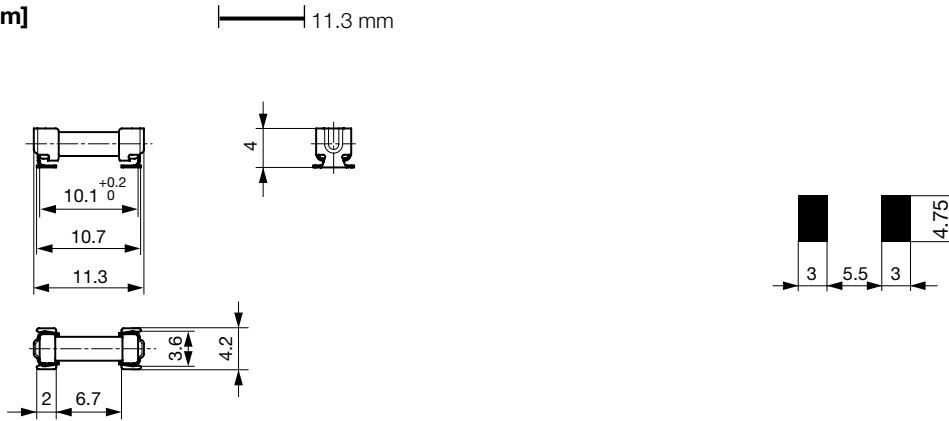
### Technical Data

|                              |   |
|------------------------------|---|
| Rated Voltage                | 250 VAC, 125 VDC  |
| Rated current                | 0.5 - 4 A   |
| Breaking Capacity            | 100-200 A   |
| Characteristic               | Quick-Acting F  |
| Mounting                     | PCB, SMT  |
| Admissible Ambient Air Temp. | -40 °C to 85 °C   |
| Climatic Category            | 40/085/21 acc. to IEC 60068-1                                     |
| Material: Housing            | Ceramic   |
| Material: Terminals          | Gold-Plated Copper Alloy  |
| Storage Conditions           | 0 °C to 40 °C, max. 70% r.h.                                      |
| Product Marking              | , Rated current, Rated Voltage, Characteristic, Breaking Capacity |

|                              |   |
|------------------------------|---|
| Soldering Methods            | Reflow<br><a href="#">Soldering Profile</a>   |
| Solderability                | 245 °C / 3 sec acc. to IEC 60068-2-58   |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-58  |
| Life Test                    | (acc. to EIA/IS-722, Test 4.4.1)<br>1000h @ 0.60 x I <sub>n</sub> @ 70°C  |
| Moisture Resistance Test     | (acc. to EIA/IS-722, Test 4.4.3)<br>10% rated current. Temperatur change between 25°C und 65°C at 100% relative humidity. Duration: 24h each cycle, total 10 cycles |
| Terminal Strength            | (acc. to EIA/IS-722, Test 4.5.5)<br>(Deflection of board 1 mm for 1 minute)   |
| Mechanical Shock             | MIL-STD-202, Method 213B<br>(Shock 50g, half sine wave, 11 ms)  |
| Resistance to Solvents       | Cleaning with common solvents   |
| Flammability                 | min. UL 94V-1<br>(acc. to EIA/IS-722, Test 4.12)  |

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

## Dimension [mm]



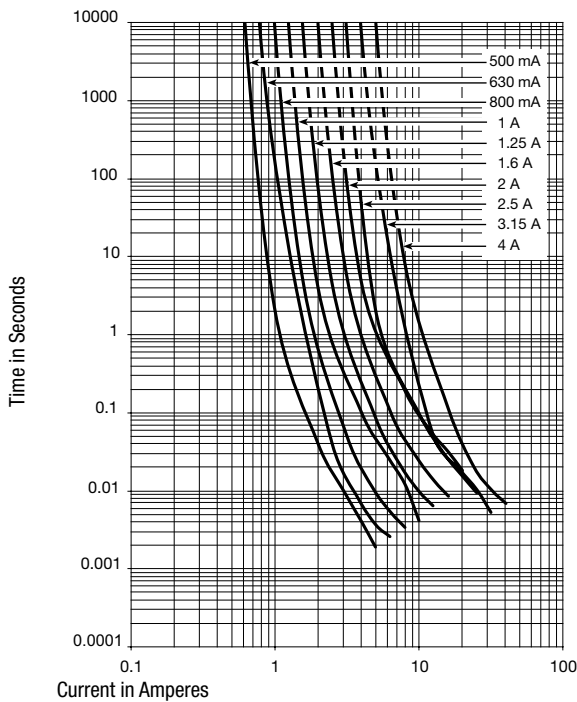
Soldering pads

## Pre-Arcing Time

Rated Current  $I_n$     1.0 x  $I_n$  min.    1.25 x  $I_n$  min.    2.0 x  $I_n$  max.    10.0 x  $I_n$  min.    10.0 x  $I_n$  max.


|               |   |        |       |      |       |
|---------------|---|--------|-------|------|-------|
| 0.5 A - 4.0 A | - | 60 min | 120 s | 1 ms | 10 ms |
|---------------|---|--------|-------|------|-------|

## Time-Current-Curves



## All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 $I_n$ max. [mV] | Voltage Drop 1.0 $I_n$ typ. [mV] | Power Dissipation 1.25 $I_n$ max [mW] | Melting $I^2t$ 10.0 $I_n$ typ. [A <sup>2</sup> s] |     | Order Number |
|-------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|---------------------------------------|---|-----|--------------|
| 0.5               | 250                 | 125                 | 1)                | 430                              | 600                              | 500                                   | 0.27  | ● ● | 3404.2463.11 |
| 0.5               | 250                 | 125                 | 1)                | 430                              | 600                              | 500                                   | 0.27  | ● ● | 3404.2463.22 |
| 0.63              | 250                 | 125                 | 1)                | 350                              | 500                              | 500                                   | 0.9   | ● ● | 3404.2464.11 |
| 0.63              | 250                 | 125                 | 1)                | 350                              | 500                              | 500                                   | 0.9   | ● ● | 3404.2464.22 |
| 0.8               | 250                 | 125                 | 1)                | 300                              | 400                              | 500                                   | 0.21  | ● ● | 3404.2465.11 |
| 0.8               | 250                 | 125                 | 1)                | 300                              | 400                              | 500                                   | 0.21  | ● ● | 3404.2465.22 |
| 1                 | 250                 | 125                 | 1)                | 250                              | 300                              | 500                                   | 0.4   | ● ● | 3404.2466.11 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.25 In max [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------|---|---|--------------|
| 1                 | 250                 | 125                 | 1)                | 250                           | 300                           | 500                                | 0.4   | ● ●   | 3404.2466.22 |
| 1.25              | 250                 | 125                 | 2)                | 220                           | 300                           | 1000                               | 1   | ● ●   | 3404.2467.11 |
| 1.25              | 250                 | 125                 | 2)                | 220                           | 300                           | 1000                               | 1   | ● ●   | 3404.2467.22 |
| 1.6               | 250                 | 125                 | 2)                | 190                           | 300                           | 1000                               | 2.1   | ● ●   | 3404.2468.11 |
| 1.6               | 250                 | 125                 | 2)                | 190                           | 300                           | 1000                               | 2.1   | ● ●   | 3404.2468.22 |
| 2                 | 250                 | 125                 | 2)                | 200                           | 300                           | 1000                               | 3.26  | ● ●   | 3404.2469.11 |
| 2                 | 250                 | 125                 | 2)                | 200                           | 300                           | 1000                               | 3.26  | ● ●   | 3404.2469.22 |
| 2.5               | 250                 | 125                 | 2)                | 160                           | 300                           | 1200                               | 4.8   | ● ●   | 3404.2470.11 |
| 2.5               | 250                 | 125                 | 2)                | 160                           | 300                           | 1200                               | 4.8   | ● ●   | 3404.2470.22 |
| 3.15              | 250                 | 125                 | 2)                | 100                           | 300                           | 1500                               | 5.17  | ● ●   | 3404.2471.11 |
| 3.15              | 250                 | 125                 | 2)                | 100                           | 300                           | 1500                               | 5.17  | ● ●   | 3404.2471.22 |
| 4                 | 250                 | 125                 | 2)                | 100                           | 300                           | 2000                               | 9.4   | ● ●   | 3404.2472.11 |
| 4                 | 250                 | 125                 | 2)                | 100                           | 300                           | 2000                               | 9.4   | ● ●   | 3404.2472.22 |

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1) IEC: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC

1) UL: 200 A @ 250 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

2) IEC / UL: 200 A @ 250 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

#### Approval Overview

UMF 250 -> Fuse with tin-plated caps, Approval Status: VDE, UL LISTED, cURus, Free of CCC, PSE JET, KTL

UMF 250 (Au) -> Fuse with gold-plated caps, Approval Status: VDE Mark and cURus

UMC 250 -> Clip, Approval Status: VDE UG Mark and cURus

UMK 250 = UMF 250 (Au) + UMC 250

There is no approval existing for the combination fuse and clip UMK 250, but the fuse and the clip are fully approved independently at VDE/UL. See details above.

In the reflow soldering process, the fuse must have gold-plated caps, otherwise fuse and clip would be soldered together. For fuse replacement in the field, a standard UMF 250 fuse with tin-plated caps can be used.

It is not allowed to replace higher rated current than 4 A in the clip.

| Packaging Unit |                                     |
|----------------|-------------------------------------|
| .xx = .11      | Plastic Bag (100 pcs.)              |
| .xx = .22      | Blister Tape 33 cm Reel (1000 pcs.) |