

Cartridge Fuse, 6.3x32 mm, 400-500 VAC, 400 VDC, 1-32 A, High Breaking Capacity up to 1500 A

new



UL 248-14 · 400 - 500 VAC · Time-Lag T



### Description

- 6.3 x 32 mm fuses for primary protection
- 16 rated currents from 0.5 A to 32 A
- 400 VDC pending for 5, 6.3, 8 A

### Unique Selling Proposition

- High rated voltages up to 500 VAC / 400 VDC
- High breaking capacity up to 1500 A

### Standards

- UL 248-14
- CSA C22.2 no. 248.14

### Approvals

- Approval Reference Type: SHT 6.3x32
- UL File Number: E41599

### Applications

- 3-phase applications
- DC applications
- Photovoltaic
- Frequency converter
- Power electronics


### References

[Packaging Details](#)  
Pigtail Type [SHT 6.3x32 Pigtail](#)

### 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](#)

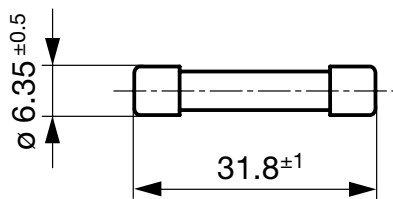
### Technical Data

|                              |                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 400 - 500 VAC, 63 - 400 VDC                                                                                                                                          |
| Rated current                | 0.5 - 32 A                                                                                                                                                           |
| Breaking Capacity            | 1500 A - 20 kA                                                                                                                                                       |
| Characteristic               | Time-Lag T                                                                                                                                                           |
| Mounting                     | Fuseholder / Clip                                                                                                                                                    |
| Admissible Ambient Air Temp. | -40 °C to 85 °C                                                                                                                                                      |
| Climatic Category            | 40/085/21 acc. to IEC 60068-1                                                                                                                                        |
| Material: Tube               | Ceramic                                                                                                                                                              |
| Material: Endcaps            | Nickel-Plated Copper Alloy                                                                                                                                           |
| Material: Axial Leads        | Tin-Plated Copper                                                                                                                                                    |
| Unit Weight                  | 2.84 g                                                                                                                                                               |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                                                                         |
| Product Marking              |  Type, Rated current, Rated Voltage, Characteristic, Breaking capacity, Approvals |

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

## Dimension

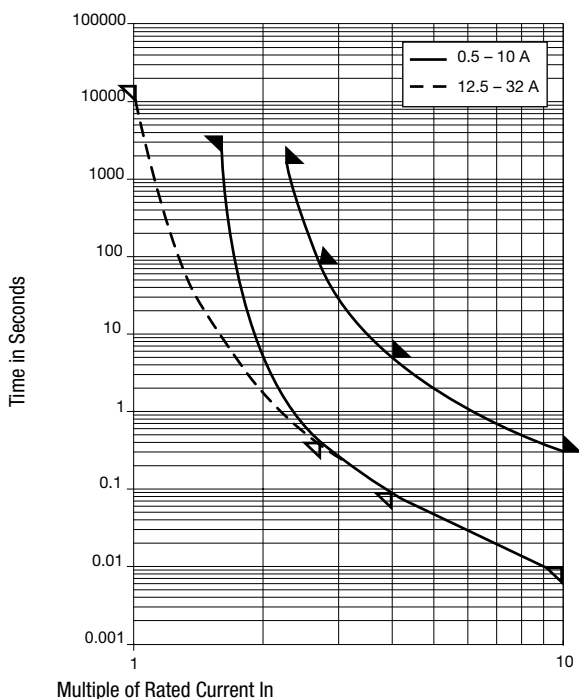
6.3 mm



## Pre-Arcing Time


| Rated Current $I_n$ | 1.0 x $I_n$ min. | 1.5 x $I_n$ min. | 2.1 x $I_n$ max. | 2.75 x $I_n$ min. | 2.75 x $I_n$ max. | 4.0 x $I_n$ min. | 4.0 x $I_n$ max. | 10.0 x $I_n$ min. | 10.0 x $I_n$ max. |
|---------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|
| 0.5 A - 10 A        | -                | 60 min           | 30 min           | 400 ms            | 80 s              | 95 ms            | 5 s              | 10 ms             | 300 ms            |
| 12.5 A - 32 A       | 4 h              | -                | 30 min           | 400 ms            | 80 s              | 95 ms            | 5 s              | 10 ms             | 300 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] | Power Dissipation 1.5 $I_n$ max. [mW] | Melting $I^2t$ 10.0 $I_n$ typ. [A <sup>2</sup> s] | Order Number  |
|-------------------|---------------------|---------------------|-------------------|----------------------------------|---------------------------------------|---------------------------------------------------|---------------|
| 0.5               | 500                 | 400                 | 1)                | 470                              | 600                                   | 0.46                                              | ● 8020.5008   |
| 0.5               | 500                 | 400                 | 1)                | 470                              | 600                                   | 0.46                                              | ● 8020.5008.G |
| 1                 | 500                 | 400                 | 1)                | 350                              | 900                                   | 1.55                                              | ● 8020.5011   |
| 1                 | 500                 | 400                 | 1)                | 350                              | 900                                   | 1.55                                              | ● 8020.5011.G |
| 1.25              | 500                 | 400                 | 1)                | 300                              | 1000                                  | 3.15                                              | ● 8020.5012   |
| 1.25              | 500                 | 400                 | 1)                | 300                              | 1000                                  | 3.15                                              | ● 8020.5012.G |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 1.6               | 500                 | 400                 | 1)                | 200                           | 1100                                           | 5.4                                                     | ●                                                                                   | 8020.5013    |
| 1.6               | 500                 | 400                 | 1)                | 200                           | 1100                                           | 5.4                                                     | ●                                                                                   | 8020.5013.G  |
| 2                 | 500                 | 400                 | 1)                | 180                           | 1200                                           | 10.5                                                    | ●                                                                                   | 8020.5014    |
| 2                 | 500                 | 400                 | 1)                | 180                           | 1200                                           | 10.5                                                    | ●                                                                                   | 8020.5014.G  |
| 2.5               | 500                 | 400                 | 1)                | 160                           | 1300                                           | 20                                                      | ●                                                                                   | 8020.5015    |
| 2.5               | 500                 | 400                 | 1)                | 160                           | 1300                                           | 20                                                      | ●                                                                                   | 8020.5015.G  |
| 3.15              | 500                 | 400                 | 1)                | 150                           | 1400                                           | 39                                                      | ●                                                                                   | 8020.5016    |
| 3.15              | 500                 | 400                 | 1)                | 150                           | 1400                                           | 39                                                      | ●                                                                                   | 8020.5016.G  |
| 4                 | 500                 | 400                 | 1)                | 140                           | 1500                                           | 71.4                                                    | ●                                                                                   | 8020.5017    |
| 4                 | 500                 | 400                 | 1)                | 140                           | 1500                                           | 71.4                                                    | ●                                                                                   | 8020.5017.G  |
| 5                 | 500                 | 63                  | 5)                | 135                           | 2200                                           | 271                                                     | ●                                                                                   | 8020.5018    |
| 5                 | 500                 | 63                  | 5)                | 135                           | 2200                                           | 271                                                     | ●                                                                                   | 8020.5018.G  |
| 6.3               | 500                 | 63                  | 5)                | 110                           | 2200                                           | 225                                                     | ●                                                                                   | 8020.5019    |
| 6.3               | 500                 | 63                  | 5)                | 110                           | 2200                                           | 225                                                     | ●                                                                                   | 8020.5019.G  |
| 8                 | 500                 | 63                  | 5)                | 110                           | 2600                                           | 285                                                     | ●                                                                                   | 8020.5020    |
| 8                 | 500                 | 63                  | 5)                | 110                           | 2600                                           | 285                                                     | ●                                                                                   | 8020.5020.G  |
| 10                | 500                 | 400                 | 2)                | 110                           | 3000                                           | 700                                                     | ●                                                                                   | 8020.5021    |
| 10                | 500                 | 400                 | 2)                | 110                           | 3000                                           | 700                                                     | ●                                                                                   | 8020.5021.G  |
| 12.5              | 400                 | 400                 | 3)                | 120                           | 5000                                           | 710                                                     | ●                                                                                   | 8020.5022    |
| 12.5              | 400                 | 400                 | 3)                | 120                           | 5000                                           | 710                                                     | ●                                                                                   | 8020.5022.G  |
| 16                | 400                 | 400                 | 3)                | 130                           | 5700                                           | 1400                                                    | ●                                                                                   | 8020.5023    |
| 16                | 400                 | 400                 | 3)                | 130                           | 5700                                           | 1400                                                    | ●                                                                                   | 8020.5023.G  |
| 20                | 400                 | 63                  | 4)                | 100                           | 6000                                           | 4000                                                    | ●                                                                                   | 8020.5024    |
| 20                | 400                 | 63                  | 4)                | 100                           | 6000                                           | 4000                                                    | ●                                                                                   | 8020.5024.G  |
| 25                | 400                 | 63                  | 4)                | 100                           | 8000                                           | 5440                                                    | ●                                                                                   | 8020.5025    |
| 25                | 400                 | 63                  | 4)                | 100                           | 8000                                           | 5440                                                    | ●                                                                                   | 8020.5025.G  |
| 32                | 400                 | 63                  | 4)                | 110                           | 10500                                          | 8750                                                    | ●                                                                                   | 8020.5026    |
| 32                | 400                 | 63                  | 4)                | 110                           | 10500                                          | 8750                                                    | ●                                                                                   | 8020.5026.G  |

 Most Popular.

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- 1) 1500 A @ 500 VAC, cos φ = 0.99 - 1  
1500 A @ 250 VAC, cos φ = 0.7 - 0.8  
10 kA @ 125 VAC, cos φ = 0.7 - 0.8  
1500 A @ 400 VDC  
20 kA @ 63 VDC
- 2) 1500 A @ 500 VAC, cos φ = 0.99 - 1  
1500 A @ 250 VAC, cos φ = 0.7 - 0.8  
10 kA @ 125 VAC, cos φ = 0.7 - 0.8  
1000 A @ 400 VDC  
20 kA @ 63 VDC
- 3) 1500 A @ 400 VAC, cos φ = 0.99 - 1  
1000 A @ 250 VAC, cos φ = 0.7 - 0.8  
10 kA @ 125 VAC, cos φ = 0.7 - 0.8  
1000 A @ 400 VDC  
20 kA @ 63 VDC
- 4) 1500 A @ 400 VAC, cos φ = 0.99 - 1  
1000 A @ 250 VAC, cos φ = 0.7 - 0.8

| Rated Current [A]     | Rated Voltage [VAC]      | Rated Voltage [VDC] | Breaking Capacity                            | Voltage Drop 1.0 In max. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] | Order Number |
|-----------------------|--------------------------|---------------------|----------------------------------------------|-------------------------------|------------------------------------------------|---------------------------------------------------------|--------------|
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
| 5)                    |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
|                       |                          |                     |                                              |                               |                                                |                                                         |              |
| <b>Packaging Unit</b> | xxxx.xxxx<br>xxxx.xxxx.G |                     | Small Box Pack (10 pcs.)<br>Bulk (1000 pcs.) |                               |                                                |                                                         |              |