

02853.15HXP Datasheet

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| | |
|------------------------------|---|
| DiGi Electronics Part Number | 02853.15HXP-DG |
| Manufacturer | Littelfuse Inc. |
| Manufacturer Product Number | 02853.15HXP |
| Description | FUSE CERAMIC 3.15A 250VAC 5X20MM |
| Detailed Description | 3.15 A 250 V AC DC Fuse Cartridge, Ceramic Requires Holder 5mm x 20mm |

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Purchase and inquiry

Manufacturer Product Number:

02853.15HXP

Series:

285

Mounting Type:

Requires Holder

Current Rating (Amps):

3.15 A

Response Time:

Slow Blow

Breaking Capacity @ Rated Voltage:

1.5kA

Approval Agency:

PSE

Color:

-

DC Cold Resistance:

0.0269 Ohms

Manufacturer:

Littelfuse Inc.

Product Status:

Active

Fuse Type:

Cartridge, Ceramic

Voltage Rating - AC:

250 V

Package / Case:

5mm x 20mm

Melting I²t:

51.597

Operating Temperature:

-55°C ~ 125°C

Size / Dimension:

0.205" Dia x 0.787" L (5.20mm x 20.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.10.0040

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

285 Series, 5x20 mm, Audio & Medical Fuse



Description

The 285 Series is a 5x20mm, high-breaking capacity, time-lag fuse with gold or rhodium-plated caps and a colourful ceramic body. This fuse is designed specifically for audio and medical applications.

Features

- Designed to IEC 60127-1 and IEC 60127-2, Sheet 5
- Available in Cartridge form
- RoHS compliant and lead-free
- Low magnetic susceptibility
- Approved to DENAN's J60127-1 and J60127-2

Agency Approvals

| Agency | Agency File Number | Ampere Range |
|--------|---|------------------------------|
| | NBK080205-E10480A NBK250702-E10480E NBK100408-JP1021A | 1A - 5A 6.3A - 15A 20A |

Applications

Ideal for supplementary protection in appliances or utilization equipment, especially in audio and medical equipment.

Additional Information



Datasheet



Resources



Samples



Accessories

For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

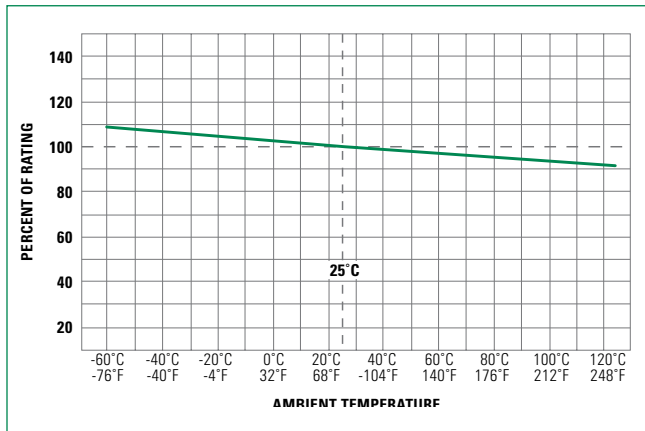
Electrical Characteristics for Series

| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|---------------|----------------------------|
| 150% | 0.125A - 0.5A | 60 minutes, Minimum |
| | 1A - 3.15A | |
| | 5A - 6.3A | |
| | 8A - 20A | |
| 210% | 0.125A - 0.5A | 30 Minutes, Maximum |
| | 1A - 3.15A | |
| | 5A - 6.3A | |
| | 8A - 20A | |
| 275% | 0.125A - 0.5A | 250 ms. Min.; 80 sec. Max. |
| | 1A - 3.15A | 750 ms. Min.; 80 sec. Max. |
| | 5A - 6.3A | |
| | 8A - 20A | |
| 400% | 0.125A - 0.5A | 50 ms. Min.; 5 sec. Max. |
| | 1A - 3.15A | 95 ms. Min.; 5 sec. Max. |
| | 5A - 6.3A | 150 ms. Min.; 5 sec. Max. |
| | 8A - 20A | |
| 1000% | 0.125A - 0.5A | 50 ms. Min.; 150 ms. Max. |
| | 1A - 3.15A | 10 ms. Min.; 150 ms. Max. |
| | 5A - 6.3A | |
| | 8A - 20A | |

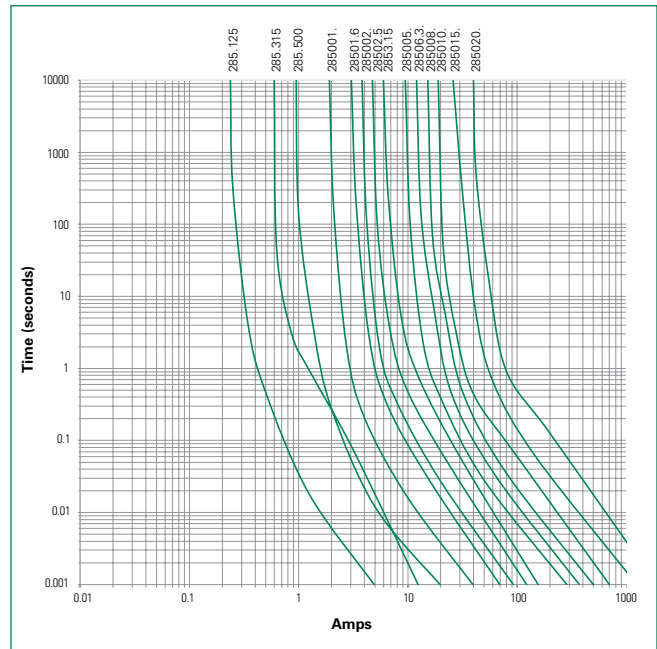
Electrical Characteristics Specification by Item

| Amp Code | Amp Rating (A) | Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I ² t (A ² Sec.) | Nominal Voltage Drop at Rated Current (mV) | Nominal Power Dissipation at Rated Current (W) | Agency Approvals |
|----------|----------------|--------------------|---------------------|--------------------------------|--|--|--|------------------|
| | | | | | | | | PS E |
| .125 | 0.125 | 250 | 1500A @ 250VAC | 13.1240 | 0.028 | 2600 | 1.6 | |
| .315 | 0.315 | 250 | | 0.9275 | 0.625 | 1100 | 1.6 | |
| .500 | 0.5 | 250 | | 1.1215 | 0.3 | 850 | 1.6 | |
| 001 | 1 | 250 | | 0.1455 | 1.6 | 350 | 2.5 | x |
| 01.6 | 1.6 | 250 | | 0.0706 | 7.168 | 200 | 2.5 | x |
| 002 | 2 | 250 | | 0.0546 | 10.8 | 190 | 2.5 | x |
| 02.5 | 2.5 | 250 | | 0.0384 | 25.625 | 180 | 2.5 | x |
| 3.15 | 3.15 | 250 | | 0.0269 | 51.597 | 140 | 4 | x |
| 005 | 5 | 250 | | 0.0141 | 70 | 100 | 4 | x |
| 06.3 | 6.3 | 250 | | 0.0107 | 130.977 | 100 | 4 | x |
| 008 | 8 | 250 | | 0.0089 | 224 | 100 | 4 | x |
| 010 | 10 | 250 | | 0.0065 | 361 | 100 | 4 | x |
| 015 | 15 | 250 | 500A @ 250VAC | 0.0031 | 1305 | 100 | 4 | x |
| 020 | 20 | 250 | 400A @ 250VAC | 0.0024 | 3225.6 | 100 | 4 | x |

Temperature Re-rating Curve



Average Time Current Curves



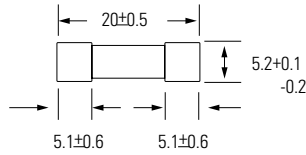
Product Characteristics

| | |
|--------------------------|--|
| Materials | Body : Ceramic Cap : Gold / Rhodium-plated brass |
| Terminal Strength | MIL-STD-202, Method 211, Test condition A |
| Product Marking | Cap 1: Brand logo, current and voltage rating Cap 2: Agency approval markings |

| | |
|------------------------------|---|
| Operating Temperature | -55°C to +125°C |
| Thermal Shock | MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C) |
| Vibration | MIL-STD-202, Method 201 |
| Humidity | MIL-STD-202, Method 103, Test condition A: High RH (95%) and elevated temp. (40°C) for 240 hours |
| Salt Spray | MIL-STD-202, Method 101, Test condition B |

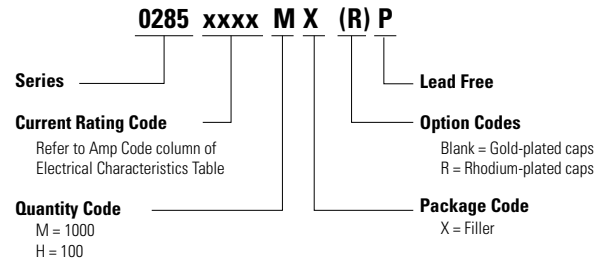
Dimensions

0285.125 XP/XRP
to
0285020 XP/XRP



All dimensions in mm

Part Numbering System



Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|------------------|-------------------------|----------|---------------------------|--------------|
| 285 Series | | | | |
| Bulk | N/A | 100 | HX | N/A |
| Bulk | N/A | 1000 | MX | N/A |

Recommended Accessories

| Accessory Type | Series | Description | Max Application Voltage | Max Application Amperage |
|----------------|-------------------------|---|-------------------------|--------------------------|
| Holder | 345 JSF | Panel Mount Shock-Safe Fuseholder | 250 | 10 |
| | 345 | Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options | | 20 |
| | 830 | PC Mount Shock-Safe Miniature Fuseholder | | 16 |
| Block | 520 | Metric OMNI-BLOK® Fuse Block | | 10 |
| | 646 | PC Mount Miniature Fuse Block | | 6.3 |
| | 658 | Surface Mount Miniature Fuse Block | | 10 |
| Clip | 520 W | PC Mount Miniature Fuse Clip | | 6.3 |
| | 111 | PC Board Mount Fuse Clip | | 10 |
| | 445 | PC Board Mount Fuse Clip | | 10 |

- Notes:**
- Do not use in applications above rating.
 - Please refer to fuseholder data sheet for specific re-rating information.
 - Please contact factory for applications greater than the max voltage and amperage shown.

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