

## Square body DIN 43 653 — 1000V (IEC): 20-315A

### 1000V (IEC) 20-315A

#### Specifications

Description: Square body DIN 43 653 stud-mount high speed fuses.

**Dimensions:** See dimensions illustration.

#### Ratings:

Volts: — 1000Vac (20-250A)

— 900Vac (315A)

Amps: — 20-315A

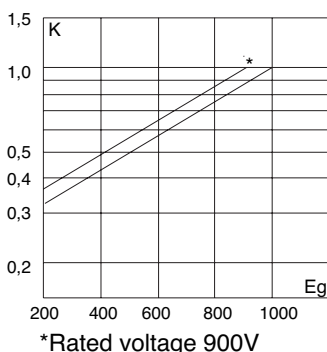
IR: — 150kA RMS Sym.

**Agency Information:** CE, Designed and tested to IEC 60269: Part 4, UL Recognized.

#### Electrical Characteristics

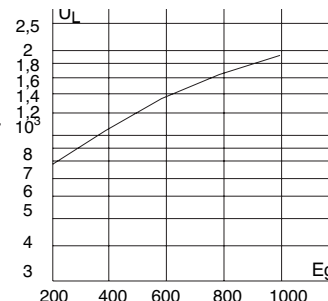
##### Total clearing $I^2t$

The total clearing  $I^2t$  at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing  $I^2t$  is found by multiplying by correction factor, K, given as a function of applied working voltage,  $E_g$ , (rms).



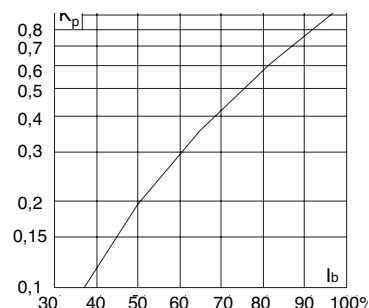
#### Arc Voltage

This curve gives the peak arc voltage,  $U_L$ , which may appear across the fuse during its operation as a function of the applied working voltage  $E_g$ , (rms) at a power factor of 15%.



#### Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor,  $K_p$ , is given as a function of the RMS load current,  $I_b$ , in % of the rated current.



#### Features and Benefits

- Excellent dc performance
- Low arc voltage and low energy let-through ( $I^2t$ )
- Low watts loss
- Superior cycling capability

#### Typical Applications

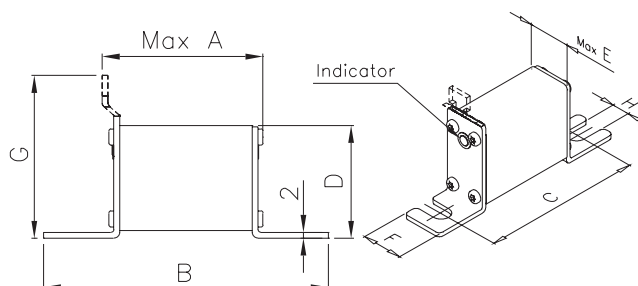
- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

#### Dimensions (mm)

Type 00TN/80 – 00/80

| Size    | Max A | B  | C  | D  | Max E | F  | G  | H  |
|---------|-------|----|----|----|-------|----|----|----|
| 00/80   | 54    | 98 | 78 | 51 | 30    | 28 |    | 10 |
| 00TN/80 | 54    | 98 | 78 | 51 | 30    | 28 | 67 | 10 |

1mm = 0.0394" / 1" = 25.4mm



## Square body DIN 43 653 — 1000V (IEC): 20-315A

### Catalog Numbers

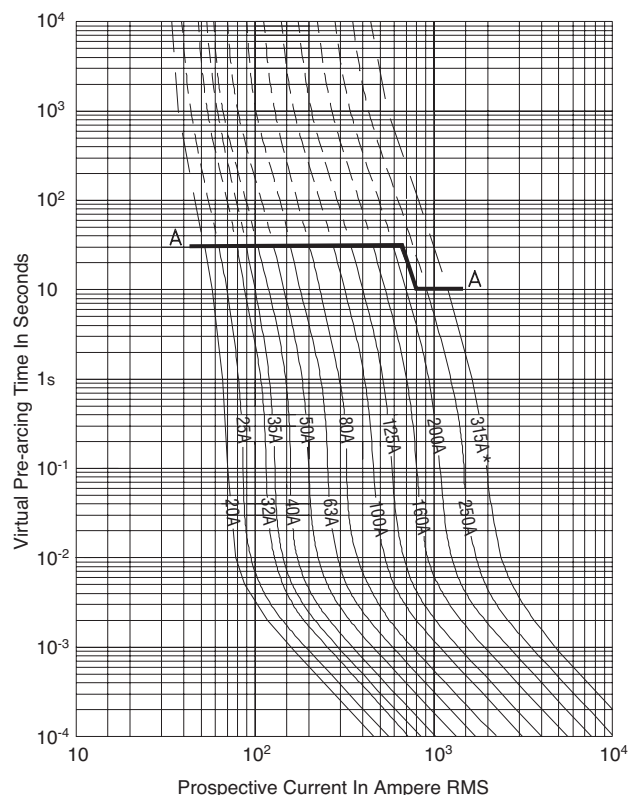
| Catalog Numbers                           |                                             | Size | Electrical Characteristics |                              |                                       |                                 |               |
|-------------------------------------------|---------------------------------------------|------|----------------------------|------------------------------|---------------------------------------|---------------------------------|---------------|
| 00/80<br>Visual<br>Indicator for<br>Micro | 00TN/80<br>Type T<br>Indicator for<br>Micro |      | Rated<br>Voltage           | Rated<br>Current<br>RMS Amps | I <sup>2</sup> t (A <sup>2</sup> Sec) |                                 | Watts<br>Loss |
|                                           |                                             |      |                            |                              | Pre-arc                               | Clearing<br>at Rated<br>Voltage |               |
| 170M4802                                  | 170M4822                                    | 00   | 1000                       | 20                           | 20                                    | 140                             | 5             |
| 170M4803                                  | 170M4823                                    |      | 1000                       | 25                           | 30                                    | 210                             | 7             |
| 170M4804                                  | 170M4824                                    |      | 1000                       | 32                           | 55                                    | 390                             | 9             |
| 170M4805                                  | 170M4825                                    |      | 1000                       | 35                           | 69                                    | 500                             | 10            |
| 170M4806                                  | 170M4826                                    |      | 1000                       | 40                           | 100                                   | 690                             | 11            |
| 170M4807                                  | 170M4827                                    |      | 1000                       | 50                           | 170                                   | 1200                            | 13            |
| 170M4808                                  | 170M4828                                    |      | 1000                       | 63                           | 280                                   | 2000                            | 18            |
| 170M4809                                  | 170M4829                                    |      | 1000                       | 80                           | 500                                   | 3500                            | 22            |
| 170M4810                                  | 170M4830                                    |      | 1000                       | 100                          | 950                                   | 6850                            | 25            |
| 170M4811                                  | 170M4831                                    |      | 1000                       | 125                          | 1500                                  | 11500                           | 33            |
| 170M4812                                  | 170M4832                                    |      | 1000                       | 160                          | 3000                                  | 22000                           | 37            |
| 170M4813                                  | 170M4833                                    |      | 1000                       | 200                          | 5600                                  | 40500                           | 40            |
| 170M4814                                  | 170M4834                                    |      | 1000                       | 250                          | 10000                                 | 74000                           | 48            |
| 170M4815                                  | 170M4835                                    |      | 900                        | 315                          | 18000                                 | 115000                          | 58            |

\* Watts loss provided at rated current.

\* Microswitch ordered separately. See accessories on page 179-180.

### Size 00 — 20-315A: 1000V

#### Time-Current Curve



High Speed  
Fuses

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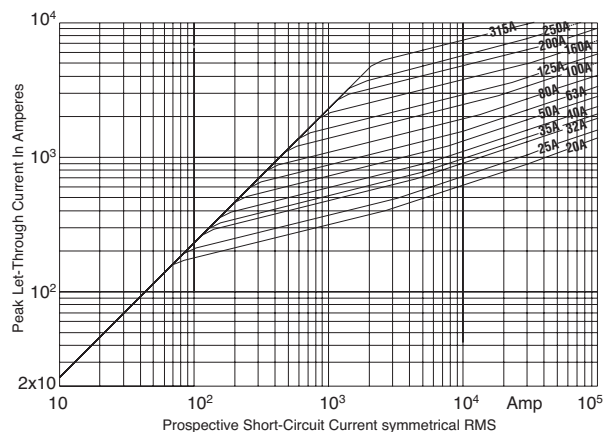
**Phone:** 636-527-3877

**email:** busscustsat@cooperbussmann.com

**Toll-free fax:** 800-544-2570

**Emergency after-hour phone:** 314-995-1342

#### Peak Let-Through Curve



\* 315A fuse is derated to 900V

**Data Sheet: 17058504**

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