

# High Speed Fuses

## Ferrule — FWC 600V: 6-32A

### FWC (10 x 38mm)

#### Specifications

**Description:** Ferrule style high speed fuses.

**Dimensions:** See Dimensions illustration.

#### Ratings:

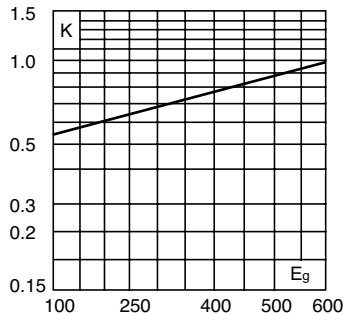
- Volts: — 600Vac
- Amps: — 6-32A
- IR: — 200kA RMS Sym.
- 50kA @ 700Vdc (6-25A)

**Agency Information:** CE, UL Recognition: 6-32A. UL Recognition: 6-25A

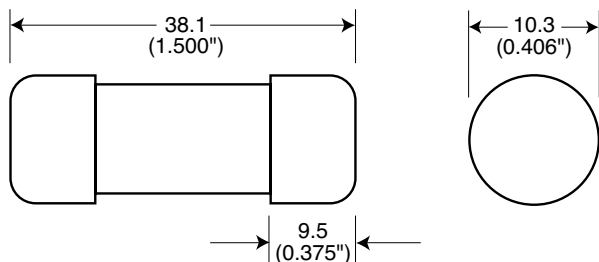
#### Electrical Characteristics

##### Total Clearing I<sup>2</sup>t

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

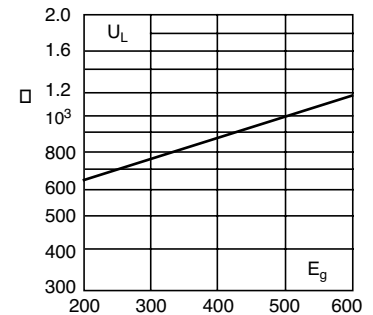


#### Dimensions - mm (inches)



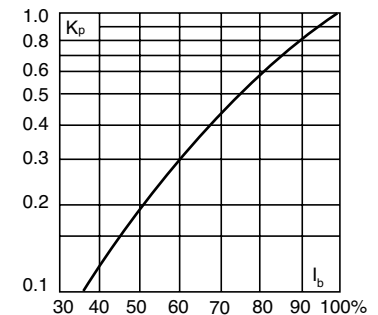
#### Arc Voltage

This curve gives the peak arc voltage, U<sub>L</sub>, which may appear across the fuse during its operation as a function of the applied working voltage, E<sub>g</sub>, (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<sub>p</sub>, is given as a function of the RMS load current, I<sub>b</sub>, in % of the rated current.



| Catalog Numbers |  | Electrical Characteristics |                                       |                  | Watts Loss |
|-----------------|--|----------------------------|---------------------------------------|------------------|------------|
| Catalog Numbers | Size   | Rated Current RMS-Amps     | I <sup>2</sup> t (A <sup>2</sup> Sec) |                  |            |
|                 |  |                            | Pre-arc                               | Clearing at 600V |            |
| FWC-6A10F       | 10 x 38mm  | 6                          | 4                                     | 30               | 1.5        |
| FWC-8A10F       | ( <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>2</sub> ") | 8                          | 6                                     | 50               | 2.0        |
| FWC-10A10F      |  | 10                         | 9                                     | 70               | 2.5        |
| FWC-12A10F      |  | 12                         | 15                                    | 120              | 3.0        |
| FWC-16A10F      |  | 16                         | 25                                    | 150              | 3.5        |
| FWC-20A10F      |  | 20                         | 34                                    | 260              | 4.8        |
| FWC-25A10F      |  | 25                         | 60                                    | 390              | 6.0        |
| FWC-32A10F      |  | 32                         | 95                                    | 600              | 7.5        |

• Watts loss provided at rated current.  
• See accessories on page 211.

#### Features and Benefits

- Excellent cycling capability and dc performance
- Low arc voltage and low energy let-through (I<sup>2</sup>t)
- Low watts loss in a compact size
- Used with finger-safe holders/blocks

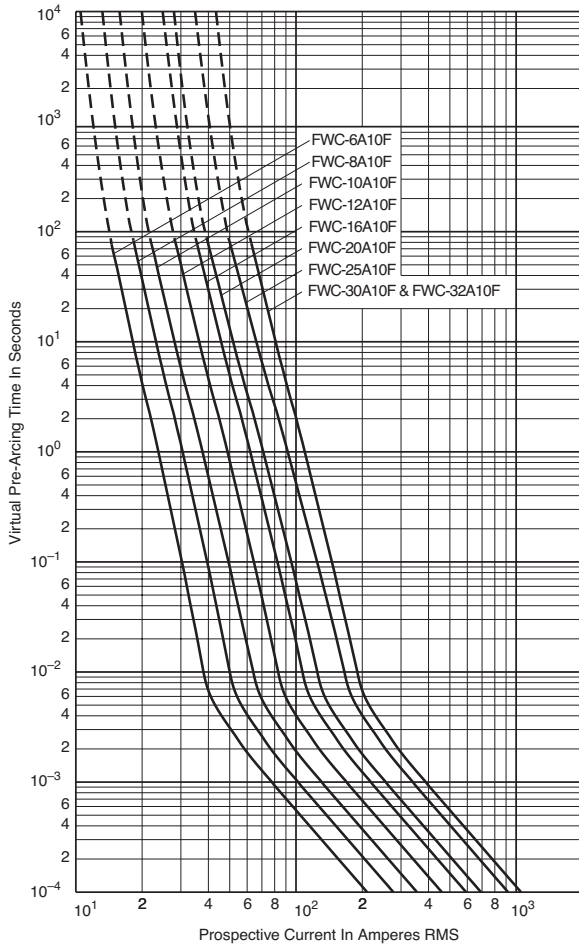
#### Typical Applications

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

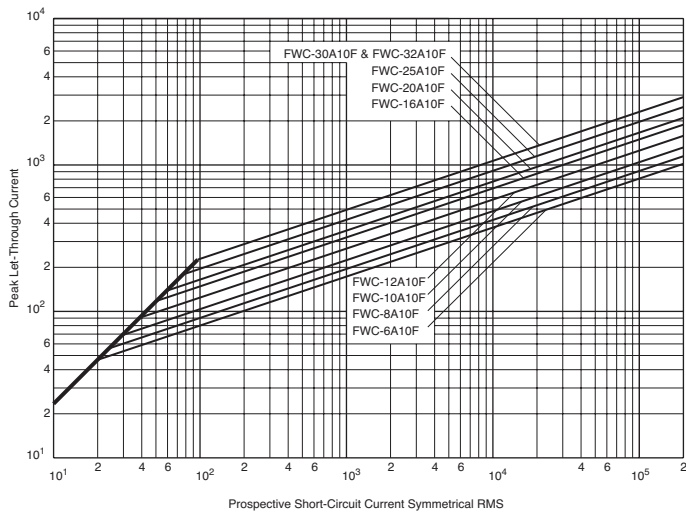
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**FWC 6-32A: 600V (10 x 38mm)**

**Time-Current Curve**



**Peak Let-Through Curve**



**Data Sheet: 35785306**