

# Ferrule fuse links

## FWC - 10 x 38 mm, 600-700 V a.c. / 700 V d.c. (UL), 1 A to 32A

### Specifications

#### Description

Ferrule style high speed fuse links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters.

#### Technical data

- Rated voltage:
  - 700 V a.c. / V d.c. (UL, 1 A to 4 A)
  - 600 V a.c. (UL, 6 A to 32 A), 700 V d.c. (UL, 6 A to 25 A)
- Rated current: 1 A to 32 A
- Breaking capacity:
  - 200 kA RMS Sym. at 600 V a.c. (6 A to 32 A)
  - 200 kA RMS Sym. at 700 V a.c. (1 A to 4 A)
  - 10 kA DC at 700 V d.c. (1 A to 25 A)
- Operating class: aR

#### Standards / Agency information

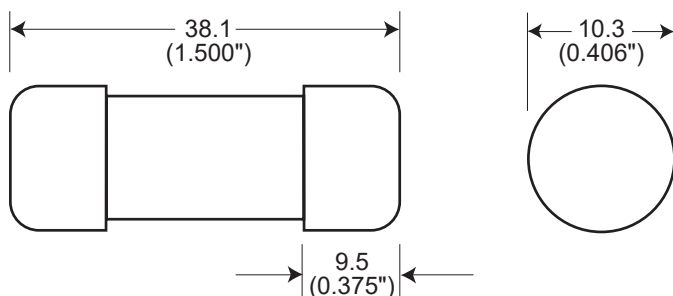
CE, UL Recognised: 6 A to 32 A



#### Catalogue numbers

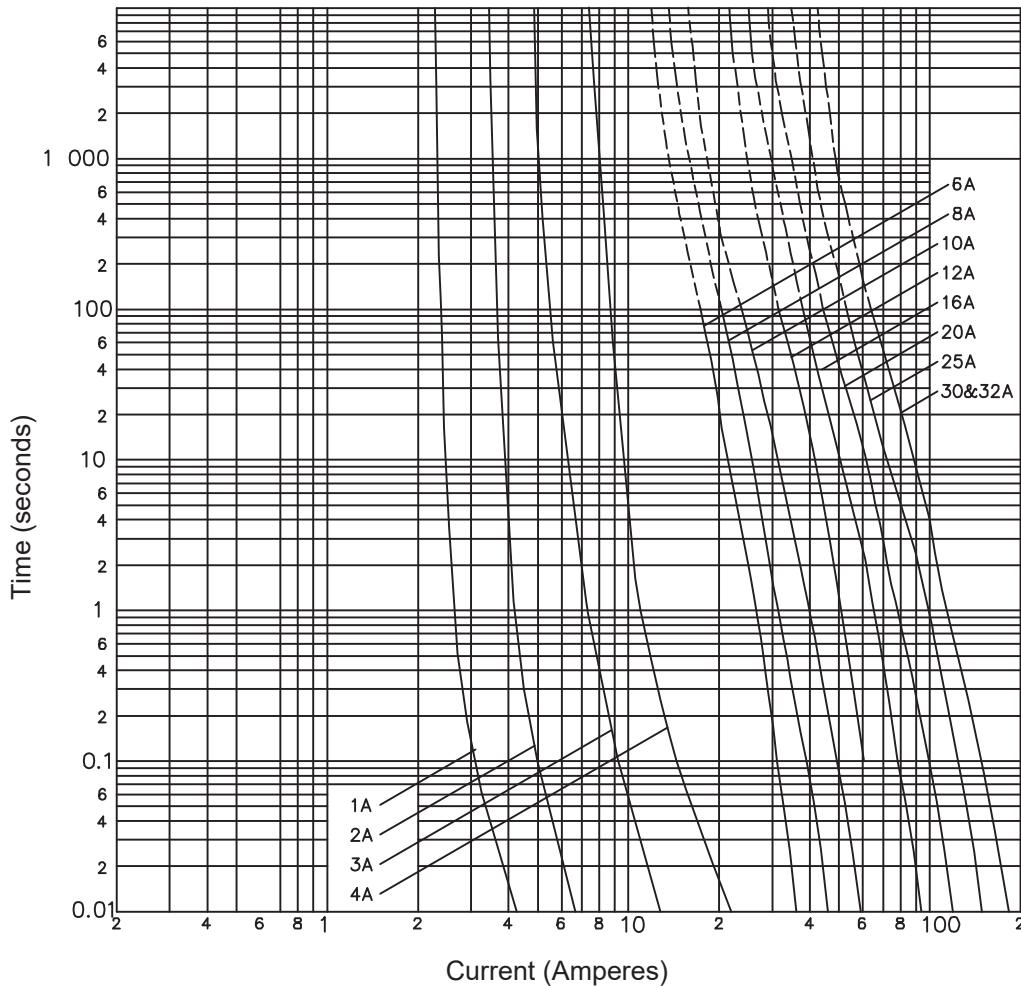
| Fuse link size   | Rated voltage                | Rated current (Amps) | I <sup>2</sup> t (A <sup>2</sup> Sec) |                        | Watts loss (W) | Catalogue numbers |
|--|------------------------------|----------------------|---------------------------------------|------------------------|----------------|-------------------|
|  |                              |                      | Pre-arcing                            | Clearing at 600 V a.c. |                |                   |
| 10 x 38 mm<br>( <sup>13</sup> / <sub>32</sub> " x 1½") | 700 V a.c. / V d.c. (UL)     | 1                    | 0.2                                   | 1.2                    | 0.5            | FWC-1A10F         |
|  |                              | 2                    | 0.5                                   | 3                      | 1.2            | FWC-2A10F         |
|  |                              | 3                    | 1.6                                   | 11                     | 1.5            | FWC-3A10F         |
|  |                              | 4                    | 5.2                                   | 32                     | 1.5            | FWC-4A10F         |
|  | 600 V a.c. / 700 V d.c. (UL) | 6                    | 4                                     | 30                     | 1.5            | FWC-6A10F         |
|  |                              | 8                    | 6                                     | 50                     | 2              | FWC-8A10F         |
|  |                              | 10                   | 9                                     | 70                     | 2.5            | FWC-10A10F        |
|  |                              | 12                   | 15                                    | 120                    | 3              | FWC-12A10F        |
|  |                              | 16                   | 25                                    | 150                    | 3.5            | FWC-16A10F        |
|  |                              | 20                   | 34                                    | 260                    | 4.8            | FWC-20A10F        |
|  |                              | 25                   | 60                                    | 390                    | 6              | FWC-25A10F        |
|  |                              | 600 V a.c. (UL)      | 30                                    | 95                     | 600            | 7.5               |
|  | 32                           |                      | 95                                    | 600                    | 7.5            | FWC-32A10F        |

#### Dimensions - mm (in)



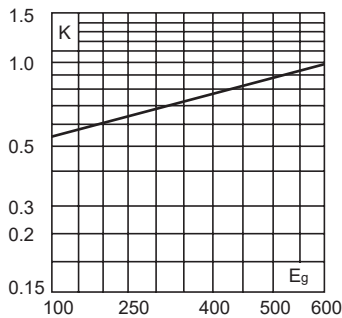
**FWC - 10 x 38 mm, 600-700 V a.c. / 700 V d.c. (UL), 1 A to 32A**

**Time-current curve - 1 A to 32 A**



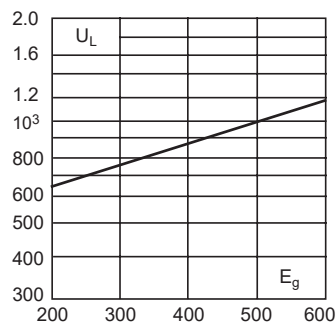
**Total clearing I<sup>2</sup>t**

The total clearing I<sup>2</sup>t at rated voltage and at a power factor of 15 percent 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).



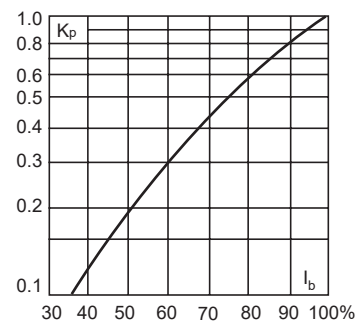
**Arc voltage**

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 percent.



**Watts losses**

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.



Data sheets: 720011, 5785306