

# FWX 14 x 51 mm Ferrule High speed fuse links

**Catalogue symbol**

- FWX-(amps)A14F (1 to 50 A)

**Description**

Ferrule high speed fuse links.

**Technical data**

- Rated voltage:
  - 250 V a.c. (UL, all ratings)
  - 250 V d.c. (UL, 5 - 50 A only)
- Rated current: 1 - 50 A
- Breaking capacity:
  - 200 kA RMS Sym (UL, all ratings)
  - 50 kA at 250 V d.c. (UL, 5-30 A only)
- Operating class: aR

**Agency information**

- CE
- UL Recognised
- CSA component acceptance: 5 - 30 A

**Features and benefits**

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

**Carton quantity**

- 10 per carton

**Carton weight**

- 0.225 (kg)

| Size                                  | Catalogue numbers (amps) |
|---------------------------------------|--------------------------|
| 14 x 51mm<br>( $\frac{9}{16}$ " x 2") | FWX-1A14F                |
|                                       | FWX-2A14F                |
|                                       | FWX-3A14F                |
|                                       | FWX-4A14F                |
|                                       | FWX-5A14F                |
|                                       | FWX-10A14F               |
|                                       | FWX-15A14F               |
|                                       | FWX-20A14F               |
|                                       | FWX-25A14F               |
|                                       | FWX-30A14F               |
|                                       | FWX-50A14F               |

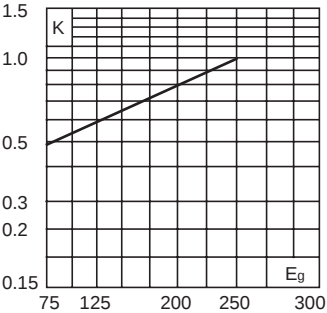


Powering Business Worldwide

Electrical characteristics

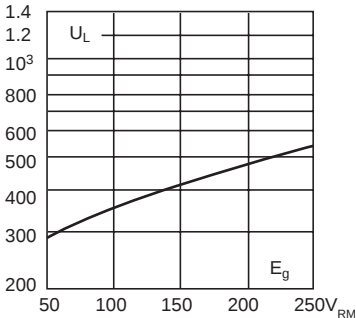
Total clearing I²t

The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other volt-ages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E<sub>g</sub>, (RMS).



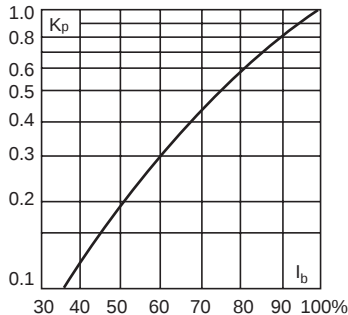
Arc voltage

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.

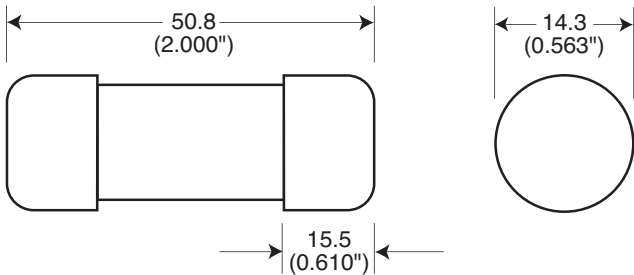


Technical data

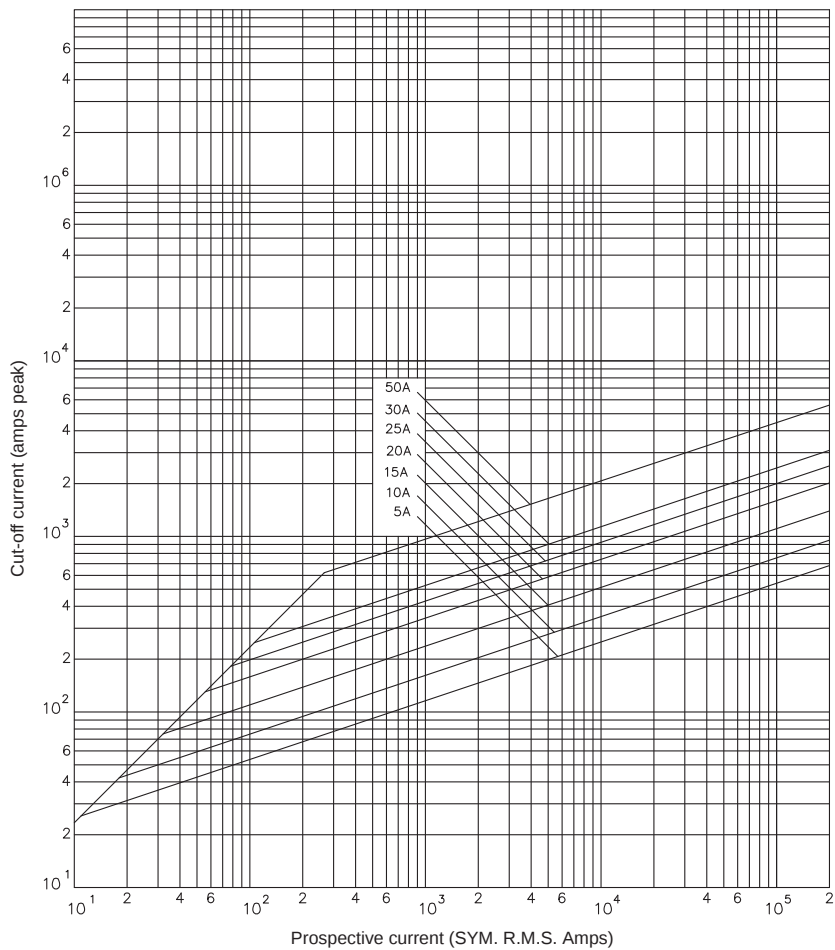
| Catalogue numbers | Rated voltage<br>V a.c. /<br>V d.c. | Rated current<br>RMS-<br>Amps | I²t (A² Sec) |                   |              |
|-------------------|-------------------------------------|-------------------------------|--------------|-------------------|--------------|
|                   |                                     |                               | Pre-arc      | Clearing at 250 V | Watts loss** |
| FWX-1A14F         | 250 V a.c.<br>(UL)                  | 1                             | 0.03         | 0.4               | 5.7          |
| FWX-2A14F         |                                     | 2                             | 0.08         | 0.1               | 8.6          |
| FWX-3A14F         |                                     | 3                             | 0.11         | 0.26              | 2.8          |
| FWX-4A14F         |                                     | 4                             | 0.1          | 0.23              | 3            |
| FWX-5A14F         | 250 V a.c. /<br>V d.c. (UL)         | 5                             | 1.6          | 13                | 1.3          |
| FWX-10A14F        |                                     | 10                            | 3.6          | 24                | 3.4          |
| FWX-15A14F        |                                     | 15                            | 14           | 83                | 3.8          |
| FWX-20A14F        |                                     | 20                            | 33           | 200               | 4.6          |
| FWX-25A14F        |                                     | 25                            | 58           | 300               | 5.3          |
| FWX-30A14F        |                                     | 30                            | 100          | 500               | 5.9          |
| FWX-50A14F        |                                     | 50                            | 200          | 1800              | 5.7          |

\*\*Watts loss provided at rated current

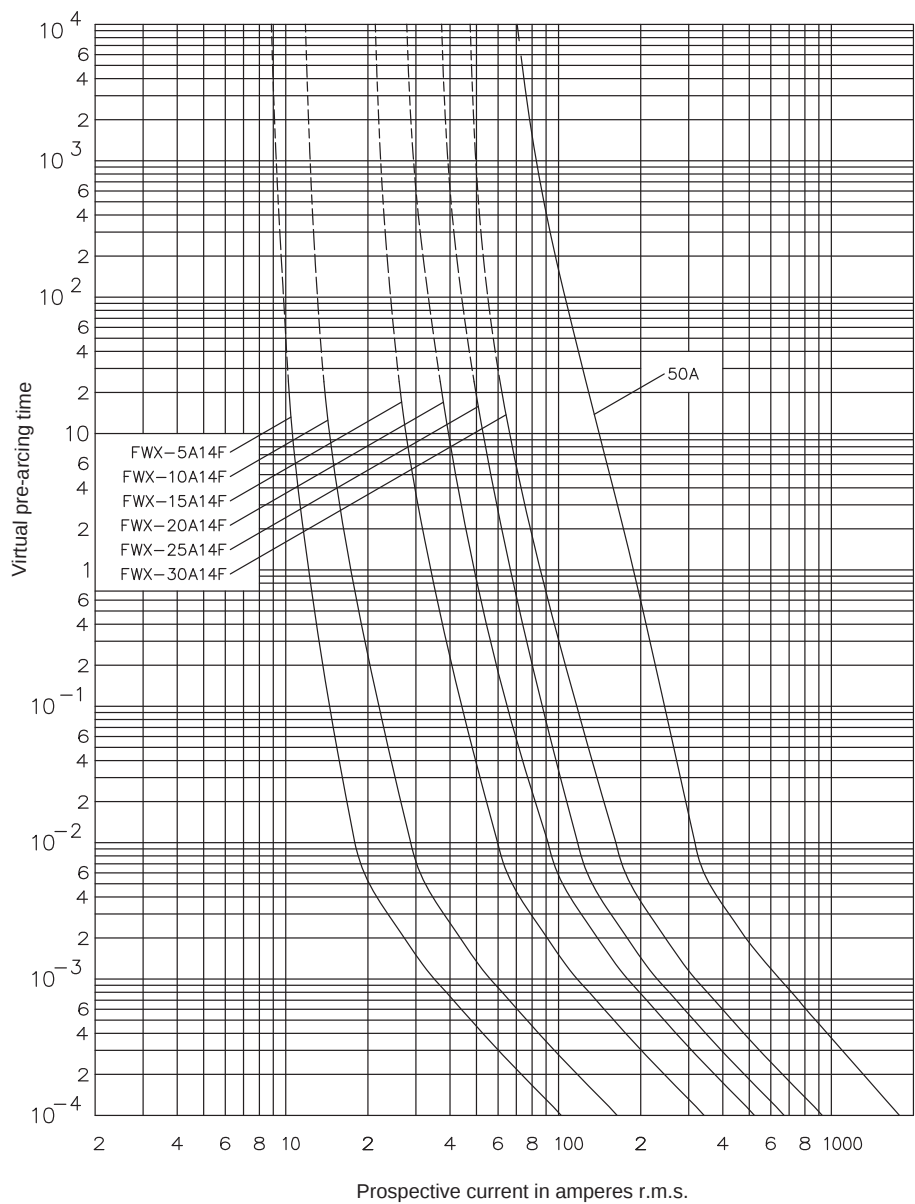
Dimensions - mm (in)



Cut-off curves



Time-current curve - nominal melt



Changes to the products, to the information contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to Trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

**Eaton**  
EMEA Headquarters  
Route de la Longeraie 7  
1110 Morges, Switzerland

Eaton Electrical Products Limited  
Melton Road  
Burton-on-the-Wolds  
Leicestershire, LE12 5TH  
United Kingdom

© 2017 Eaton  
All Rights Reserved  
PDF Only  
Publication No. 720006 / BU-MC16102  
October 2017



Eaton is a registered trademark.  
All other trademarks are property of their respective owners.