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# High Speed Fuses



## Ferrule — FWA 150V: 5-60A

**FWA 5-30A (10 x 38mm)**  
**35-60A (21 X 51mm)**

**Specifications**

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

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts — 150Vac/dc

Amps — 5-60A

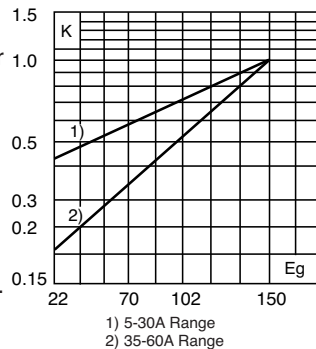
IR: — 100kA Sym.

**Agency Information:** CE, UL Recognition

**Electrical Characteristics**

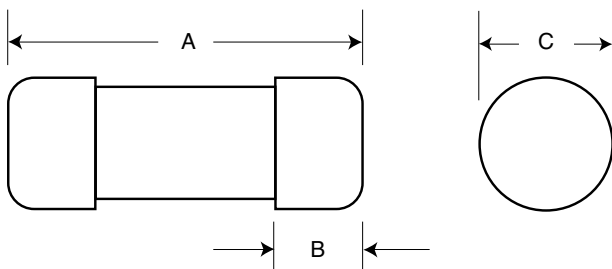
**Total Clearing I<sup>2</sup>t**

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).



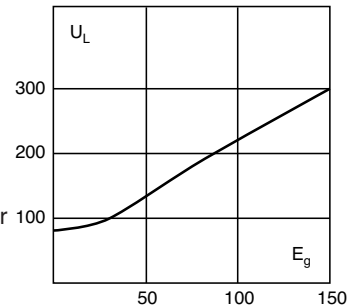
**Dimensions - in (mm)**

Amp Range	Dimensions		
	A	B	C
5-30	1.5 (38.1)	0.375 (9.5)	0.406 (10.3)
35-60	2.0 (50.8)	0.625 (15.9)	0.811 (20.6)



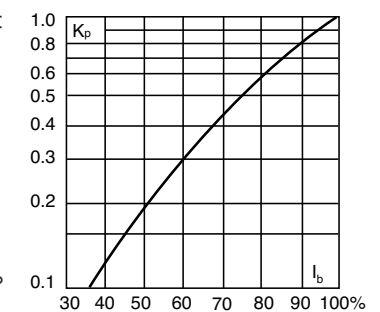
**Arc Voltage**

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**

Catalog Numbers	Size	Electrical Characteristics			
		Rated Current RMS-Amps	I <sup>2</sup> t (A <sup>2</sup> Sec)		Watts Loss
			Pre-arc	Clearing at 150V	
FWA-5A10F		5	1.6	8	1
FWA-10A10F		10	3.6	16	2.7
FWA-15A10F	10 x 38mm	15	14	55	3.3
FWA-20A10F	( <sup>13</sup> / <sub>32</sub> " x 1 1/2")	20	33	130	3.8
FWA-25A10F		25	58	220	4.9
FWA-30A10F		30	100	400	4.9
FWA-35A21F		35	75	800	4.5
FWA-40A21F		40	100	1000	5.1
FWA-45A21F	21 x 51mm	45	130	1300	6
FWA-50A21F	( <sup>13</sup> / <sub>16</sub> " x 2")	50	170	1600	7.3
FWA-60A21F		60	250	2400	8.0

• Watts loss provided at rated current.  
 • See accessories on page 216.

**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**

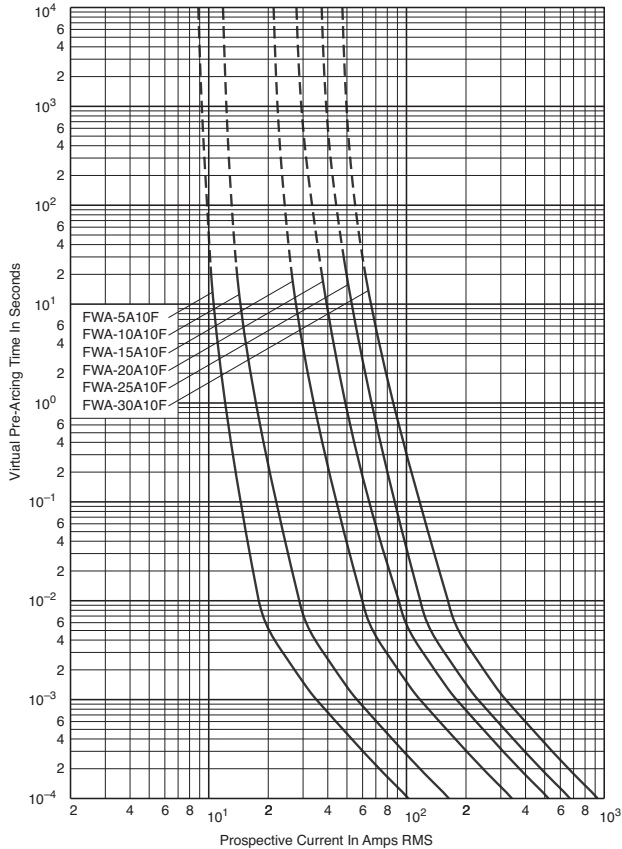
- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

# High Speed Fuses

## Ferrule — FWA 150V: 5-60A

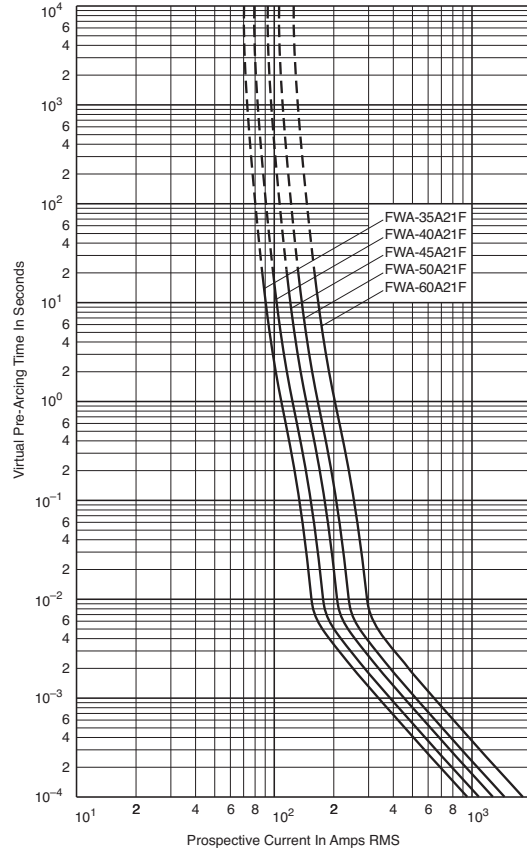
### FWA 5-30A: 150V (10 x 38mm)

Time-Current Curve

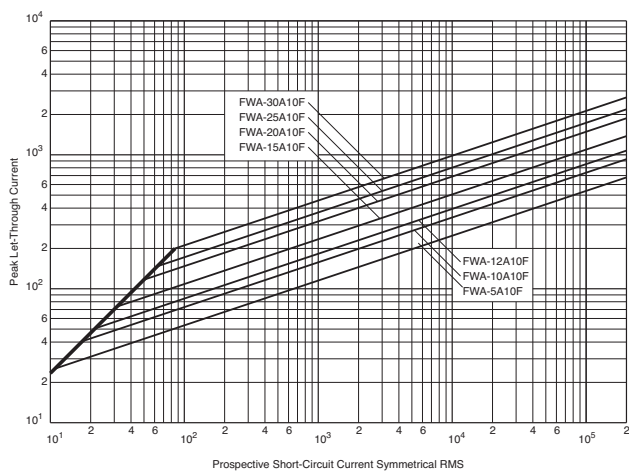


### FWA 35-60A: 150V (21 x 51mm)

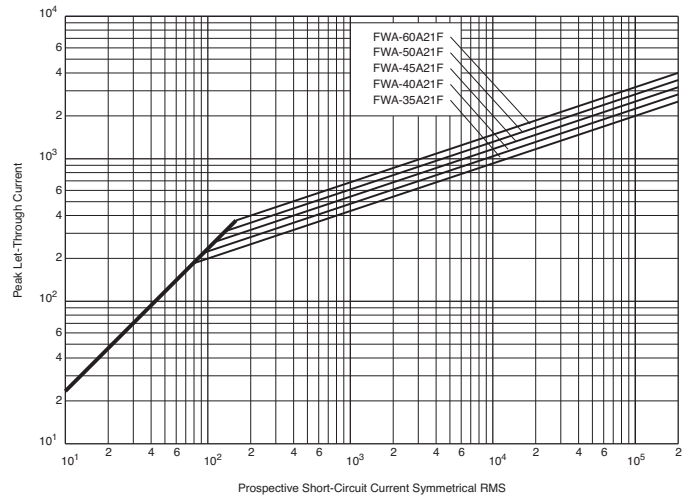
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: 35785317

Data Sheet: 35785305