

# High Speed Fuses

## Ferrule — FWP 690V/700V (IEC/UL): 1-50A, striker optional

### FWP (14 x 51mm)

#### Specifications

**Description:** Ferrule style high speed fuses with and without indicating striker.

**Dimensions:** See Dimensions illustrations.

#### Ratings:

Volts: — 690Vac (IEC)  
— 700Vac (UL)

Amps: — 1-50A

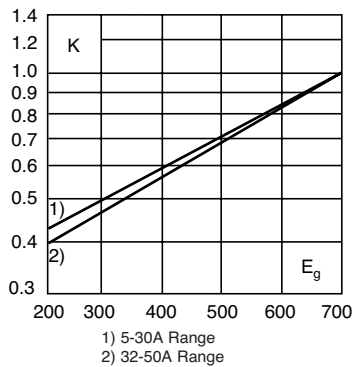
IR: — 200kA RMS Sym.  
— 50kA @700Vdc

**Agency Information:** CE, UL Recognition, CSA Component Acceptance for versions without indicator only.

#### Electrical Characteristics

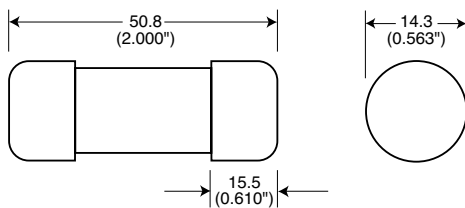
##### Total Clearing I<sup>2</sup>t

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).

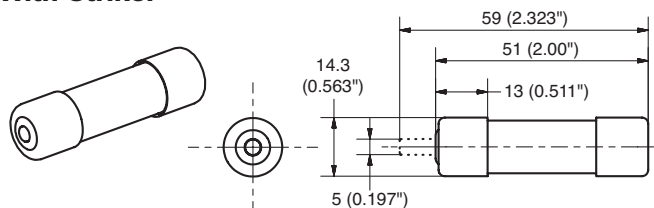


#### Dimensions - mm (inches)

##### Without Striker



##### With Striker



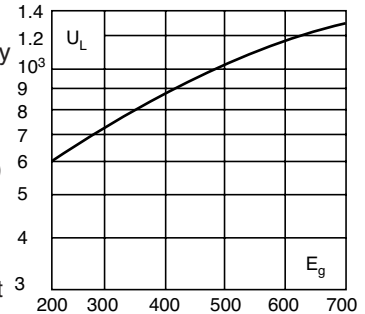
Data Sheets: E5781724 rev. B (without striker)  
170K5342/43 (with striker)



FWP with striker option.

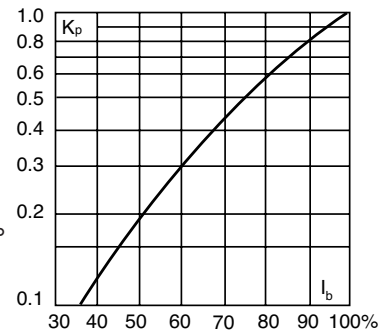
#### Arc Voltage

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			
		Current RMS-Amps	Rated Minimum Melting	I <sup>2</sup> t (A <sup>2</sup> Sec) Clearing At Rated Voltage	Watts Loss
Without Striker	14 x 51mm ( $\frac{9}{16}$ " x 2")	1	—	—	—
FWP-1A14Fa		2	—	—	—
FWP-2A14Fa		2.5	—	—	—
FWP-2.5A14Fa		3	—	—	—
FWP-3A14Fa		4	—	—	—
FWP-4A14Fa		5	1.6	11.0	1.5
FWP-5A14Fa		10	3.6	38.5	4
FWP-10A14Fa		15	8.6	70	5.5
FWP-15A14Fa		20	26.0	230	6
FWP-20A14Fa		25	46.5	375	7
FWP-25A14Fa		30	58	485	9
FWP-30A14Fa	32	68	600	7.6	
FWP-32A14Fa	40	84	750	8	
FWP-40A14Fa	50	200	1800	9	
FWP-50A14Fa	14 x 51mm ( $\frac{9}{16}$ " x 2")	10	3.6	38.5	4
FWP-10A14FI		15	8.6	70	5.5
FWP-15A14FI		20	26.0	230	6
FWP-20A14FI		25	46.5	375	7
FWP-25A14FI		30	58	485	9
FWP-30A14FI		32	68	600	7.6
FWP-32A14FI		40	84	750	8
FWP-40A14FI	50	200	1800	9	
FWP-50A14FI					

#### 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

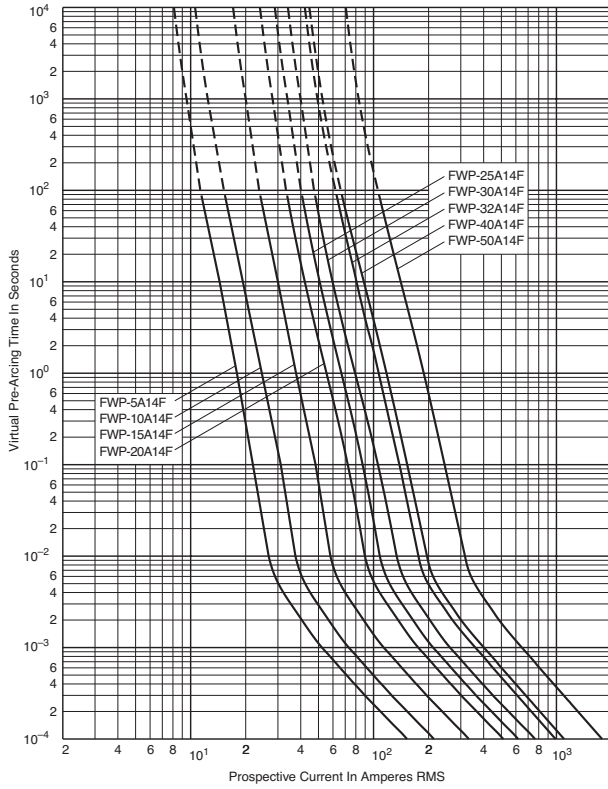
- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

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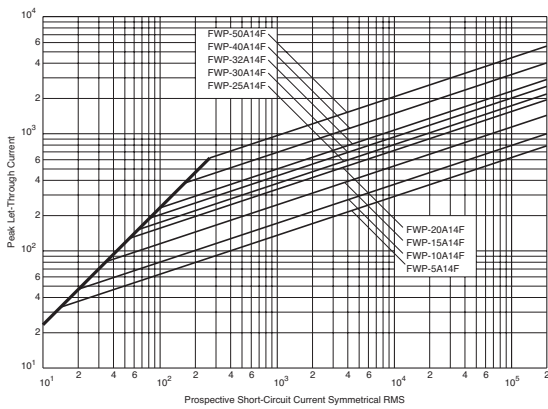
**FWP 5-50A: 660V/700V (14x 51mm)**

**Time-Current Curve**



High Speed  
 Fuses

**Peak Let-Through Curve**



**Data Sheet: 35785307**