

## 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)
- 800Vdc (5-50A)
- Amps: — 1-50A
- IR: — 200kA RMS Sym.
- 50kA @800Vdc

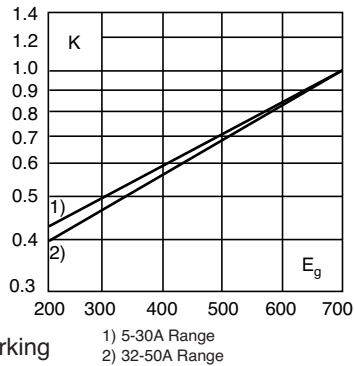
**Agency Information:** CE, UL Recognition JFHR2.E91958, CSA Component Acceptance file Class 1422-30, 1422-90 (53787) for versions without indicator only. Designed and tested to IEC 60269: Part 4.

#### Electrical

##### Characteristics

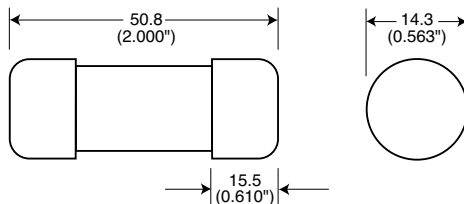
##### Total Clearing I<sup>2</sup>t

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).

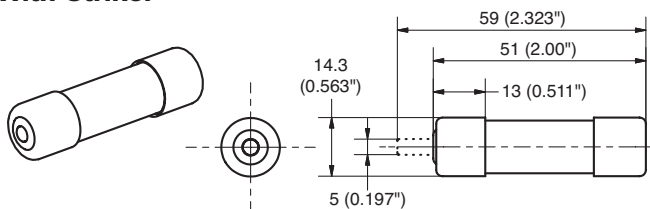


##### Dimensions - mm (in)

##### Without Striker

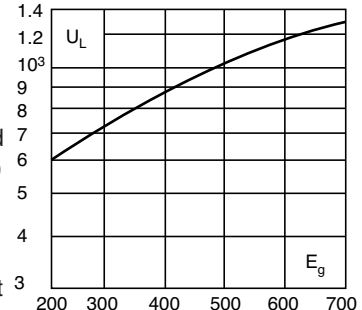


##### With Striker



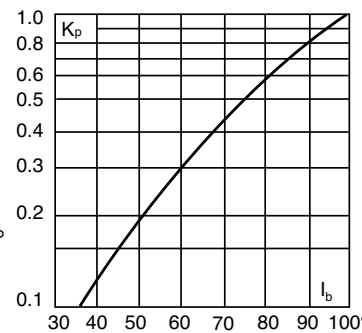
#### Arc Voltage

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 ( $\frac{1}{2}$ " x 2")	1	—	—	—
FWP-1A14F		2	—	—	—
FWP-2A14F		2.5	—	—	—
FWP-2.5A14F		3	—	—	—
FWP-3A14F		4	—	—	—
FWP-4A14F		5	1.6	11.0	1.5
FWP-5A14F		10	3.6	38.5	4
FWP-10A14F		15	8.6	70	5.5
FWP-15A14F		20	26.0	230	6
FWP-20A14F		25	46.5	375	7
FWP-25A14F		30	58	485	9
FWP-30A14F		32	68	600	7.6
FWP-32A14F	40	84	750	8	
FWP-40A14F	50	200	1800	9	
With Striker*	14 x 51mm ( $\frac{1}{2}$ " 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

\*Striker range is 600Vdc only  
• Watts loss provided at rated current.  
• See accessories on page 243.

#### 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

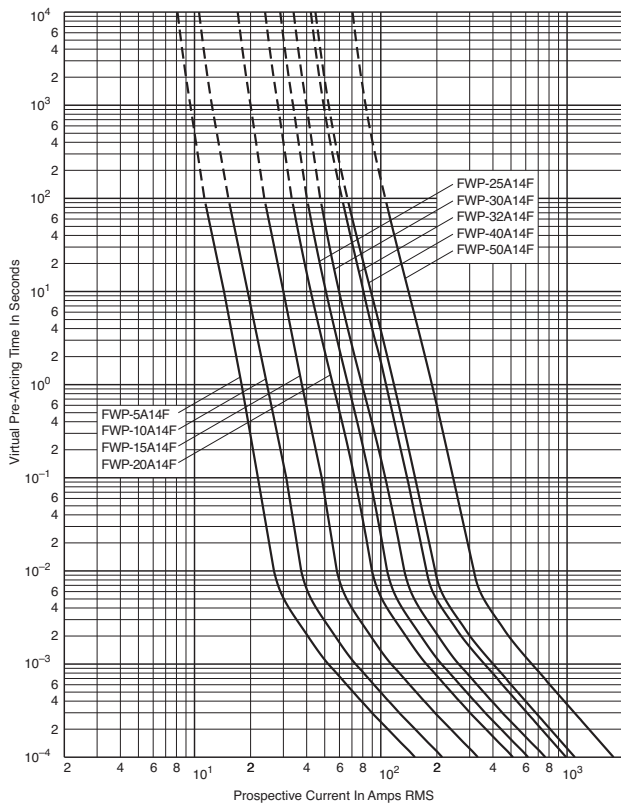
**Data Sheet: 720025**

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

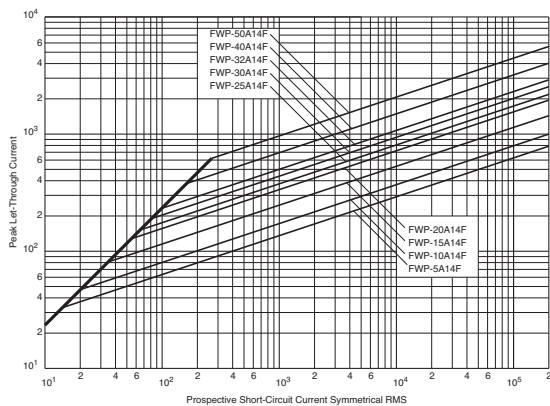
**Without Striker**

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

**Time-Current Curve**



**Peak Let-Through Curve**



**Data Sheet: 35785307**

## Ferrule — FWP 690V/700V (IEC/UL): 20-100A, Striker Optional

### FWP (22 x 58mm)

#### Specifications

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

**Dimensions:** See dimensions illustration.

#### Ratings:

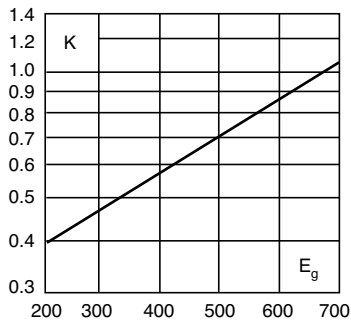
- Volts: — 690Vac (IEC)
- 700Vac (UL)
- 500Vac
- 500Vdc (20-100A)
- Amps: — 20-100A
- IR: — 200kA RMS Sym.
- 50kA @ 500Vdc

**Agency Information:** CE, UL Recognition JFHR2.E91958, CSA Component Acceptance file Class 1422-30, 1422-90 (53787)

#### Electrical Characteristics

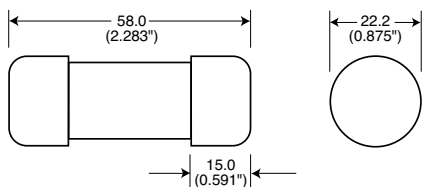
##### Total Clearing I<sup>2</sup>t

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).

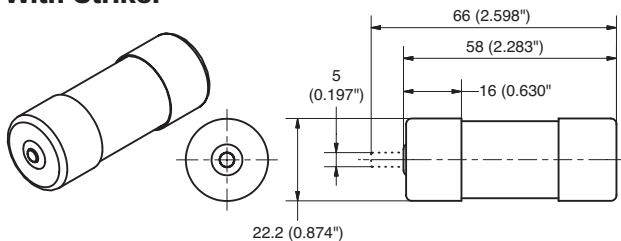


##### Dimensions - mm (in)

##### Without Striker



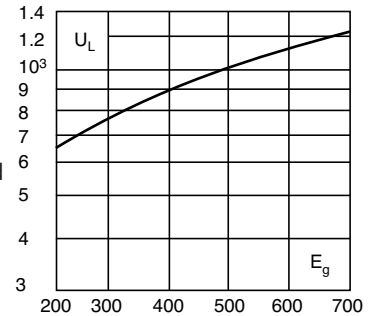
##### With Striker



FWP with striker option.

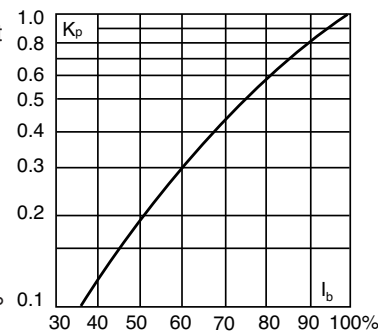
#### Arc Voltage

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	Rated Current RMS-Amps	Electrical Characteristics		Watts Loss
			I <sup>2</sup> t (A <sup>2</sup> Sec)		
			Minimum Melting	Clearing At Rated Voltage	
<b>Without Striker</b>					
FWP-20A22F	22 x 58mm ( <sup>7</sup> / <sub>8</sub> " x 2 <sup>1</sup> / <sub>2</sub> "	20	19.0	260	5
FWP-25A22F		25	34.0	410	6
FWP-32A22F		32	53.5	605	8
FWP-40A22F		40	68	750	9
FWP-50A22F		50	135	1600	9.5
FWP-63A22F		63	280	3080	11
FWP-80A22F		80	600	6600	13.5
FWP-100A22F	100*	1100	12500	16	
<b>With Striker</b>					
FWP-20A22FI	22 x 58mm ( <sup>7</sup> / <sub>8</sub> " x 2 <sup>1</sup> / <sub>2</sub> "	20	19.0	260	5
FWP-25A22FI		25	34.0	410	6
FWP-32A22FI		32	53.5	605	8
FWP-40A22FI		40	68	750	9
FWP-50A22FI		50	135	1600	9.5
FWP-63A22FI		63	280	3080	11
FWP-80A22FI		80	600	6600	13.5
FWP-100A22FI	100*	1100	12500	16	

\*IEC/UL Voltage rating 690/700

#### 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

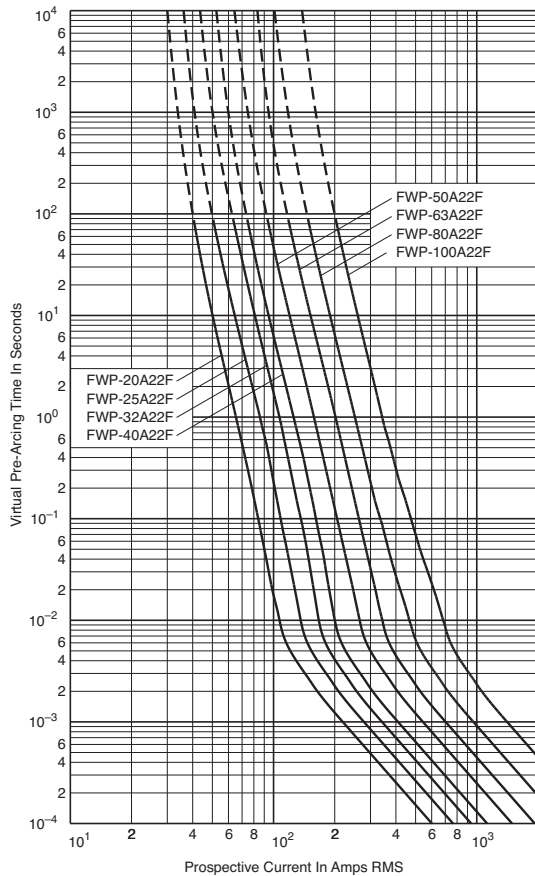
- DC Common bus
- DC Drives
- Power converters/rectifiers
- Reduced voltage starters

## Ferrule — FWP 690V/700V (IEC/UL): 20-100A, Striker Optional

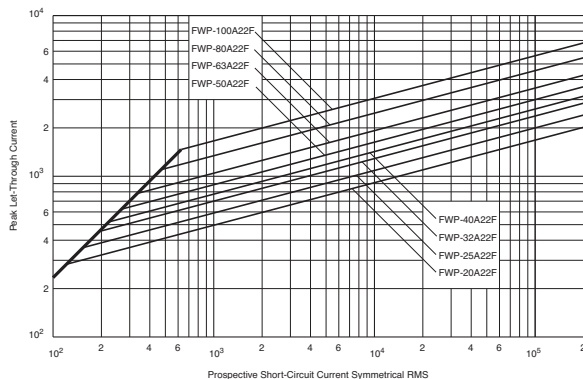
**Without Striker**

**FWP 20-100A: 660V/700V (22 x 58mm)**

**Time-Current Curve**



**Peak Let-Through Curve**



**Data Sheet: 35785291**