

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:

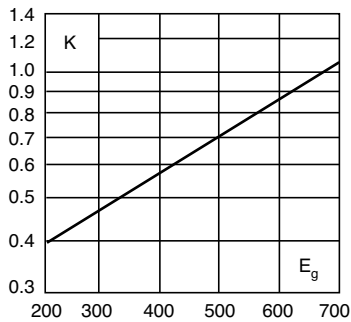
- Volts: — 690Vac (IEC)
- 700Vac (UL)
- 500Vac
- 500Vdc (20-100A)
- Amps: — 20-100A
- IR: — 200kA RMS Sym.
- 50kA @ 500Vdc

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

Electrical Characteristics

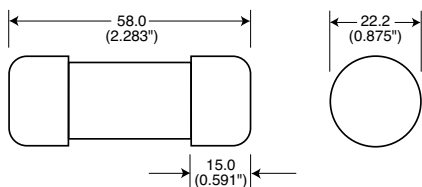
Total Clearing I²t

The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (rms).

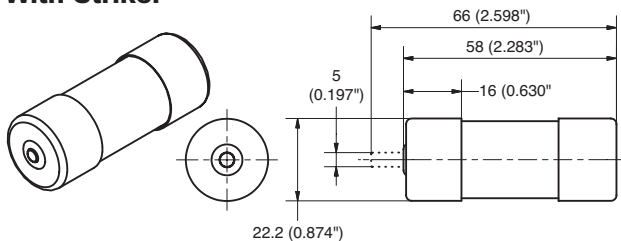


Dimensions - mm (in)

Without Striker



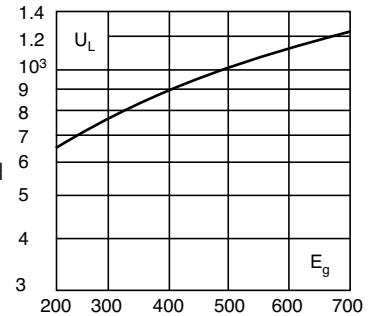
With Striker



FWP with striker option.

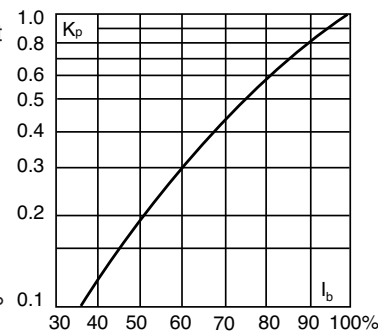
Arc Voltage

This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (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_p, is given as a function of the RMS load current, I_b, in % of the rated current.



Catalog Numbers

Catalog Numbers	Size	Rated Current RMS-Amps	Electrical Characteristics		Watts Loss
			I ² t (A ² Sec)		
			Minimum Melting	Clearing At Rated Voltage	
Without Striker					
FWP-20A22F	22 x 58mm (⁷ / ₈ " x 2 ¹ / ₂ "	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	
With Striker					
FWP-20A22FI	22 x 58mm (⁷ / ₈ " x 2 ¹ / ₂ "	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 (I²t)
- Low watts loss in a compact size
- Used with finger-safe holders/blocks

Typical Applications

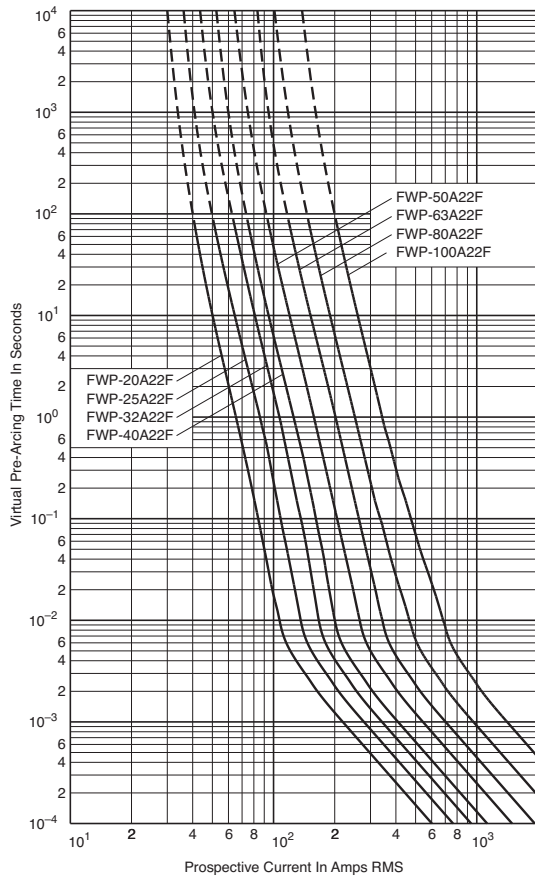
- DC Common bus
- DC Drives
- Power converters/rectifiers
- Reduced voltage starters

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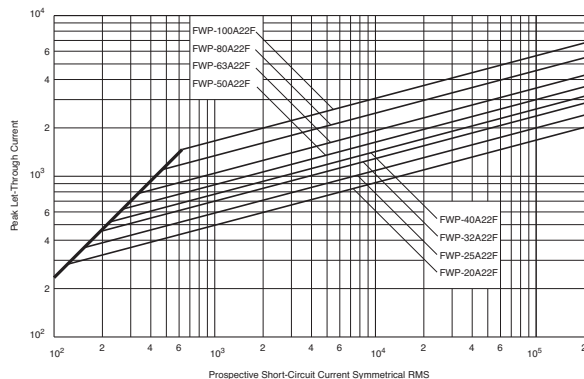
Without Striker

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

Time-Current Curve



Peak Let-Through Curve



Data Sheet: 35785291

Ferrule

FWP 660V/700V (IEC/U.L.) 20-100A



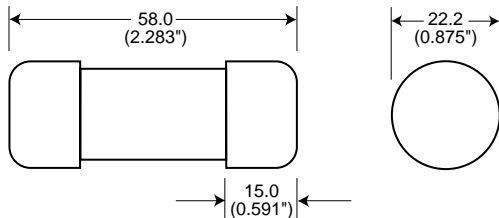
Electrical Characteristics				Ordering Information			Dimensions	Curves	
Size	Rated Current RMS-Amps	I ² t (A ² S)		Watts Loss	Part Number	Carton Qty.	Carton Weight (kg)	Figure Number	BIF #
		Pre-arc	Clearing at 660V						
22 x 58mm (7/8")	20	23	260	4.6	FWP-20A22F	10	0.450	Fig. 1	35785291
	25	37	410	5.6	FWP-25A22F				
	32	55	605	7.0	FWP-32A22F				
	40	68	750	8.5	FWP-40A22F				
	50	155	1600	9.5	FWP-50A22F				
	63	280	3080	11	FWP-63A22F				
	80	600	6600	13.5	FWP-80A22F				
	100	1100	12500	16	FWP-100A22F				

- Interrupting rating 200kA RMS Symmetrical.
- Watts loss provided at rated current.
- (500 Vdc/Interrupting rating 50kA) U.L. Recognition.

1 kg = 2.2 lbs. 1 lb = 0.45 kg

Dimensions

Fig. 1: 20-100 Amp Range

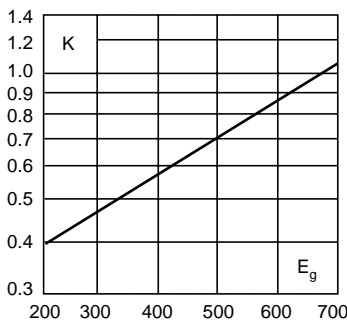


Dimension in mm.
1mm = 0.0394" 1" = 25.4mm

Electrical Characteristics

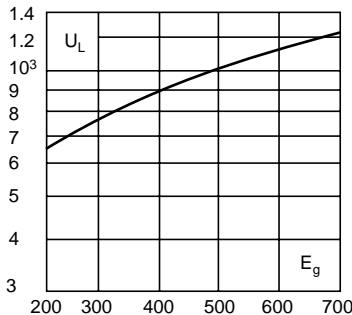
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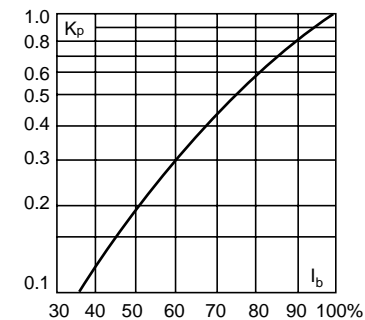
Arc Voltage

This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15%.



Power Losses

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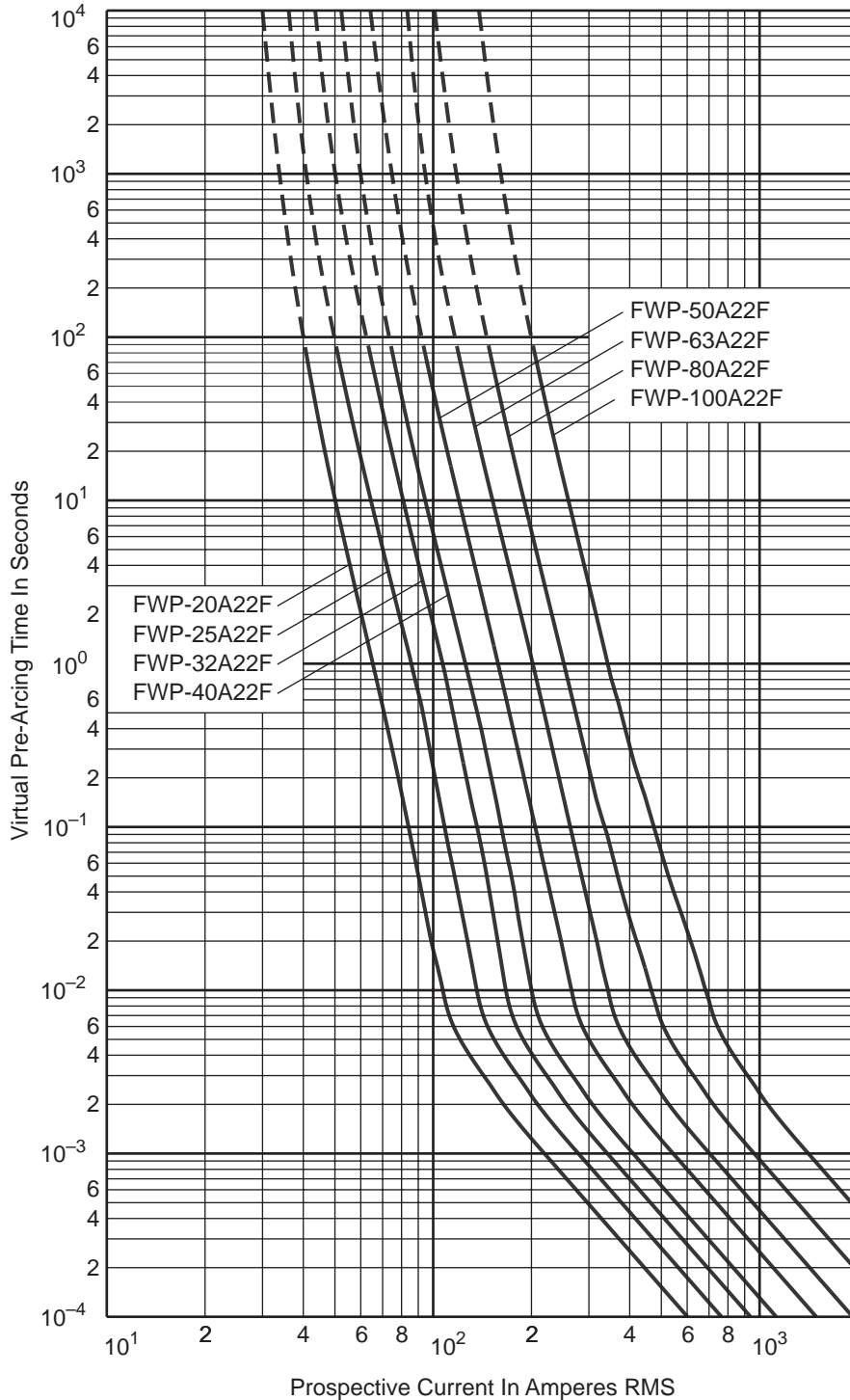


Semiconductor Fuse

20-100A, 700 Volts

Bussmann

BIF Document
35785291
 Size **22x58**



Pre-Arcing Time-Current Characteristic Curves
FWP 20A22F-100A22F

Approved: **NN** Page **1 of 2**
 Rev. Date: **SEPT-97** Pub. Date: **JAN-98**

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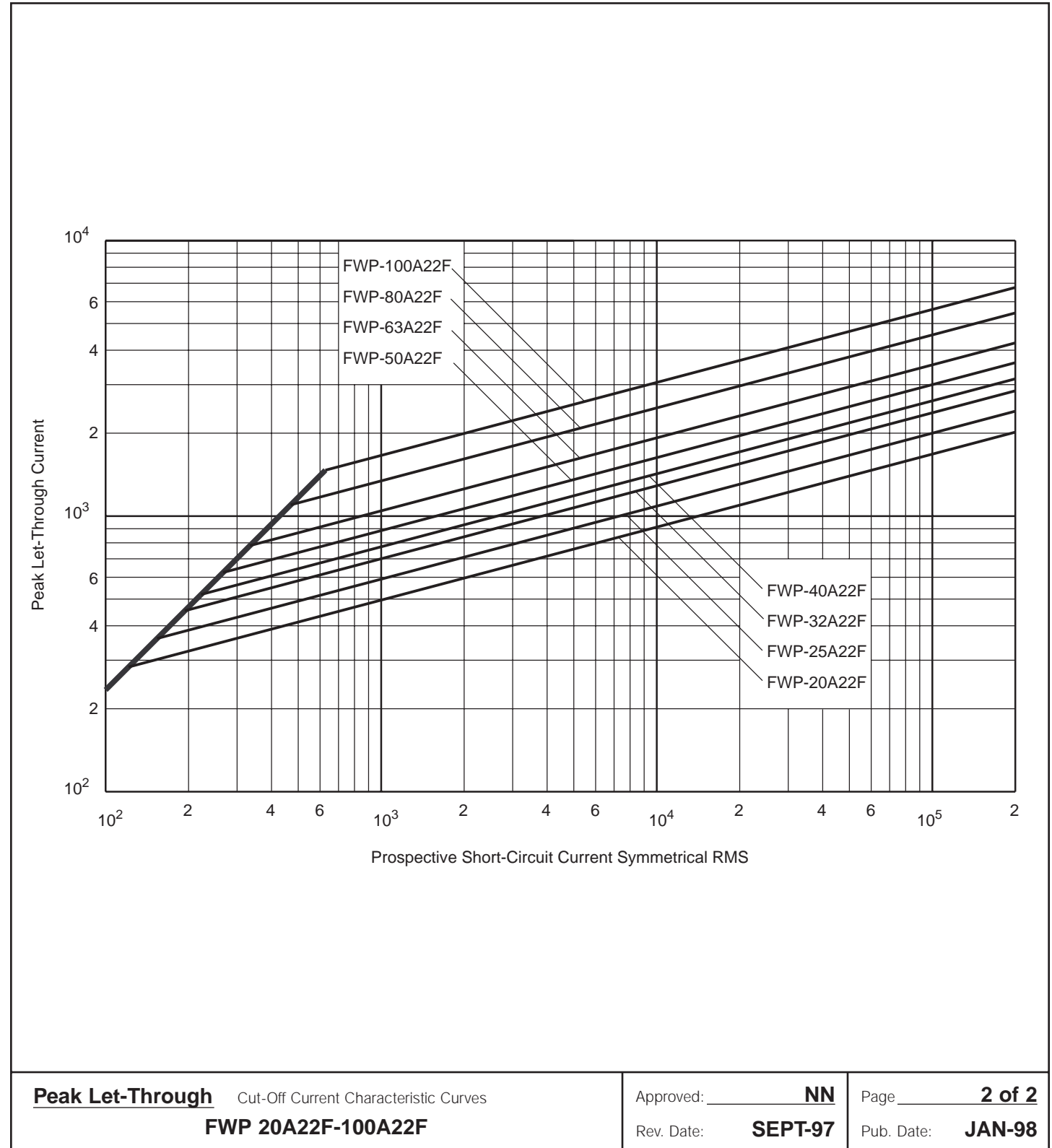
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Semiconductor Fuse

20-100A, 700 Volts

BIF Document
35785291
 Size **22x58**



Peak Let-Through Cut-Off Current Characteristic Curves
FWP 20A22F-100A22F

Approved: **NN**
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