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

FWP (14 x 51mm)

FWP with striker option.

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

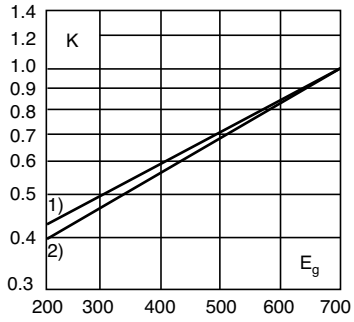
IR: — 200kA RMS Sym.
— 50kA @800Vdc

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 I²t

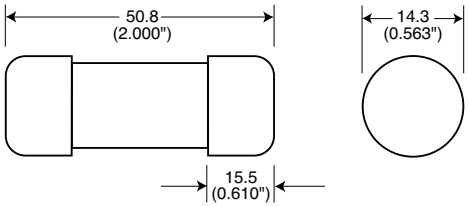
The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (rms).



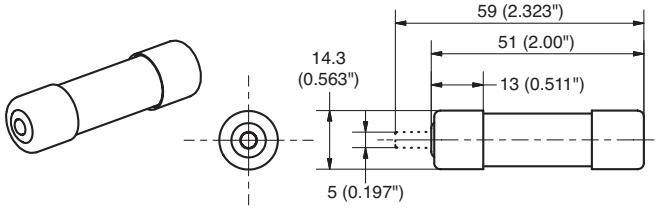
1) 5-30A Range
2) 32-50A Range

Dimensions - mm (in)

Without Striker

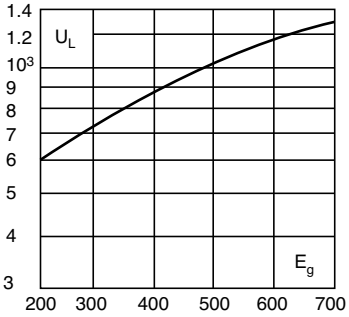


With Striker



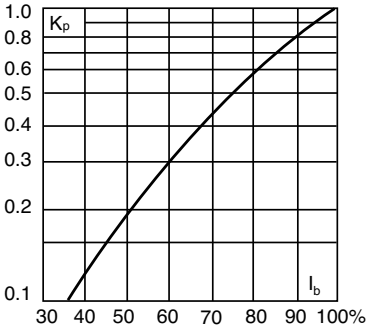
Arc Voltage

This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of theapplied 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	Electrical Characteristics: Current RMS-Amps	Rated I²t (A² Sec): Minimum Melting	Rated I²t (A² Sec): Clearing At Rated Voltage	Watts Loss
Without Striker					
FWP-1A14F		1	—	—	—
FWP-2A14F		2	—	—	—
FWP-2.5A14F		2.5	—	—	—
FWP-3A14F		3	—	—	—
FWP-4A14F		4	—	—	—
FWP-5A14F	14 x 51mm	5	1.6	11.0	1.5
FWP-10A14F	(13/16" x 2")	10	3.6	38.5	4
FWP-15A14F		15	8.6	70	5.5
FWP-20A14F		20	26.0	230	6
FWP-25A14F		25	46.5	375	7
FWP-30A14F		30	58	485	9
FWP-32A14F		32	68	600	7.6
FWP-40A14F		40	84	750	8
FWP-50A14F		50	200	1800	9
With Striker*					
FWP-10A14FI		10	3.6	38.5	4
FWP-15A14FI		15	8.6	70	5.5
FWP-20A14FI	14 x 51mm	20	26.0	230	6
FWP-25A14FI	(13/16" x 2")	25	46.5	375	7
FWP-30A14FI		30	58	485	9
FWP-32A14FI		32	68	600	7.6
FWP-40A14FI		40	84	750	8
FWP-50A14FI		50	200	1800	9

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

Features and Benefits

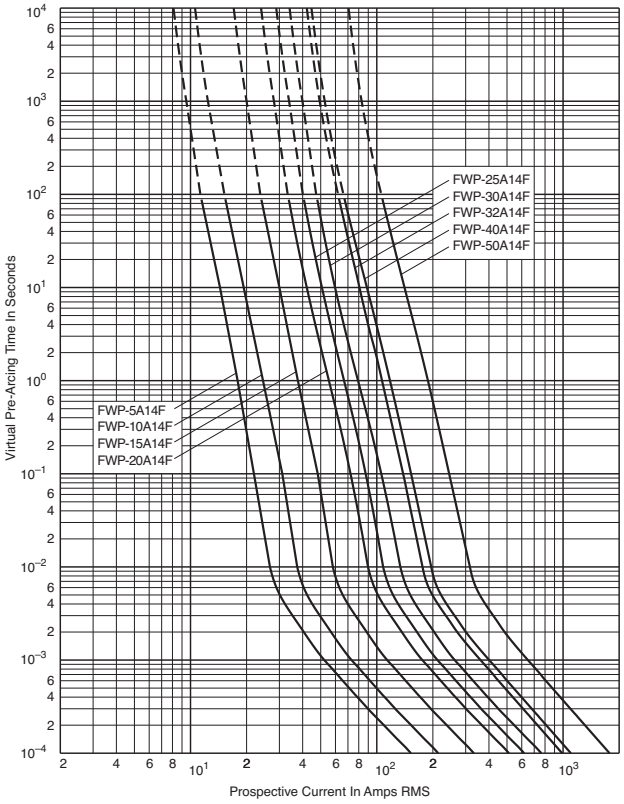
- Excellent cycling capability and DC performance
- Low arc voltage and low energy let-through (I²t)
- Low watts loss in a compact size
- Used with finger-safe holders/blocks

Data Sheet: 720025

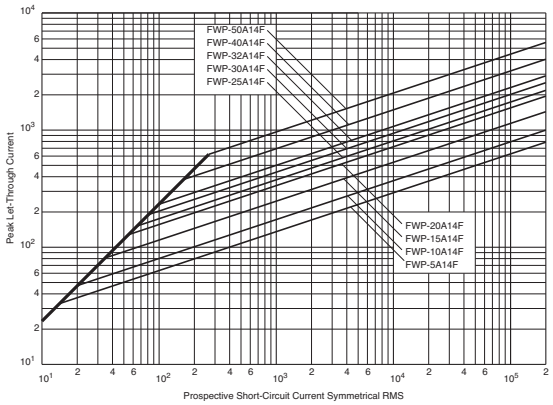
Ferrule — FWP 690V/700V (IEC/UL): 1-50A, Striker Optional

Without Striker
FWP 5-50A: 660V/700V (14 x 51mm)

Time-Current Curve



Peak Let-Through Curve



Data Sheet: 35785307

Ferrule

FWP 660V/700V (IEC/U.L.) 1-50A

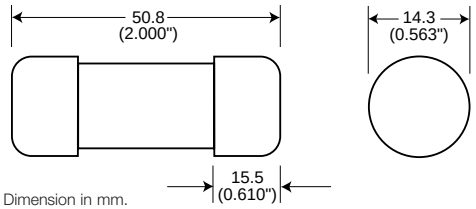
Electrical Characteristics				Ordering Information				Dimensions	Curves
Size	Rated Current RMS-Amps	I^2t (A^2S) Pre-arc	I^2t (A^2S) Clearing at 660V	Watts Loss	Part Number	Carton Qty.	Carton Weight (kg)	Figure Number	BIF #
14 × 51mm (9⁄16″)	1	—	—	—	FWP-1A14F	10	0.225	Fig. 1	35785307
	2	—	—	—	FWP-2A14F				
	3	—	—	—	FWP-3A14F				
	4	—	—	—	FWP-4A14F				
	5	1.6	11	1.5	FWP-5A14F				
	6	—	—	—	FWP-6A14F				
	10	3.6	22	4	FWP-10A14F				
	15	10	75	5.5	FWP-15A14F				
	20	26	180	6	FWP-20A14F				
	25	44	320	7	FWP-25A14F				
	30	58	450	9	FWP-30A14F				
	32	68	600	7.6	FWP-32A14F				
	40	84	750	8	FWP-40A14F				
	50	200	1800	9	FWP-50A14F				

- Interrupting rating 200kA RMS Symmetrical.
- Watts loss provided at rated current.
- (700 Vdc/Interrupting rating 50kA) U.L. Recognition.
- CSA Component Acceptance: 5 - 30A.

1 kg = 2.2 lbs. 1 lb = 0.45 kg

Dimensions

Fig. 1: 1-50 Amp Range



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

Electrical Characteristics

Total Clearing I^2t

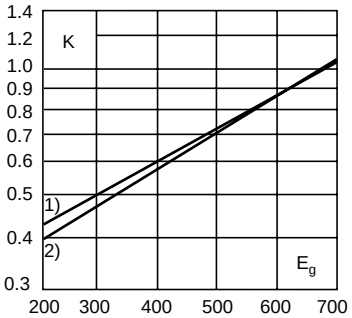
The total clearing I^2t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).

Arc Voltage

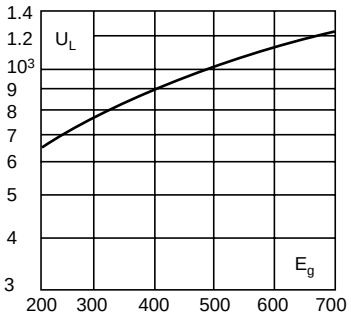
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15%.

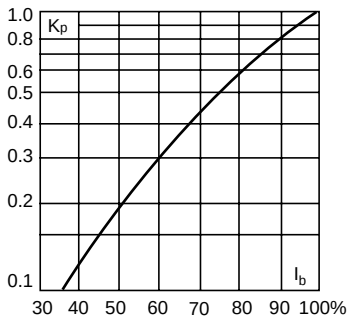
Power Losses

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.



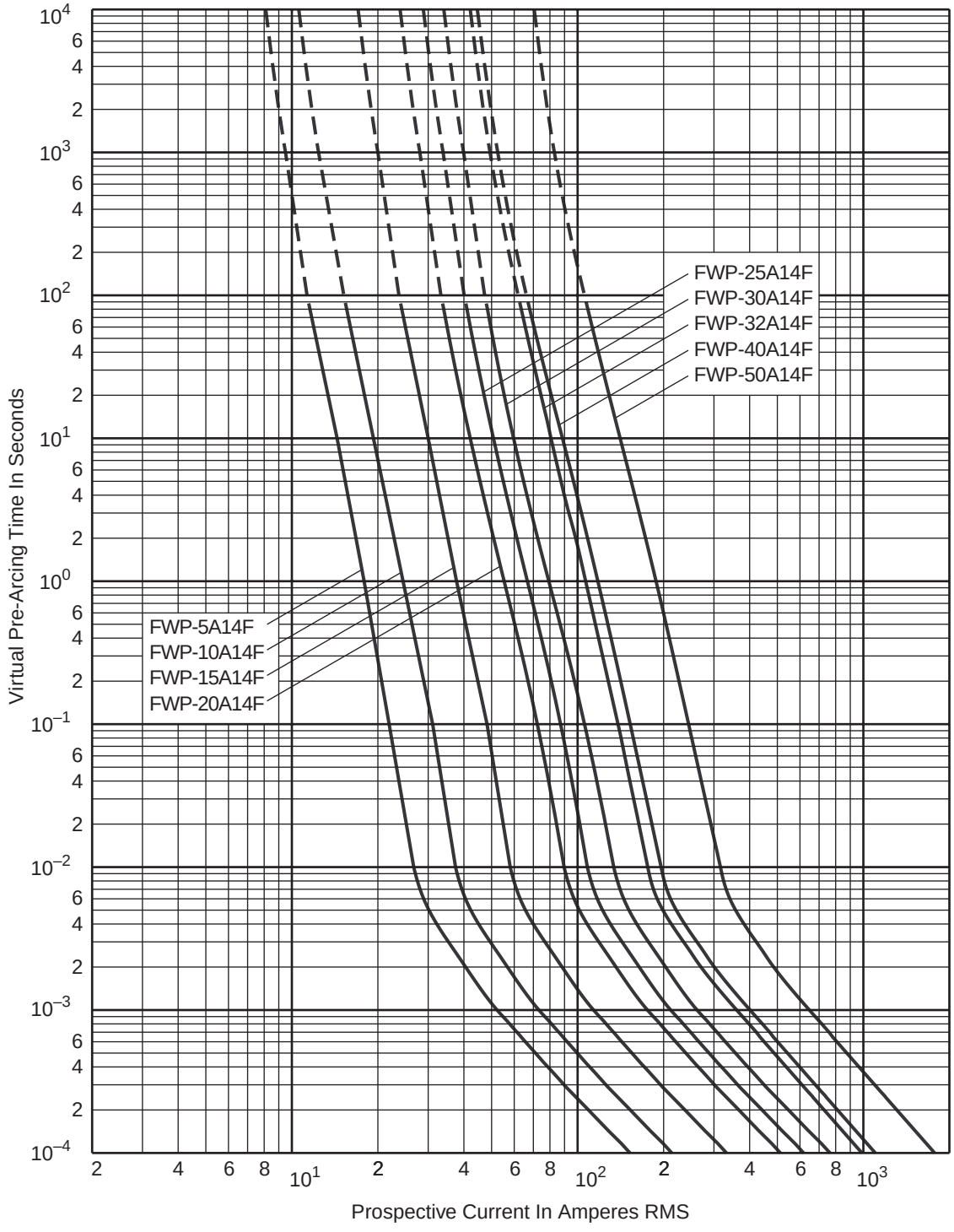
1) 5-30 Amp Range
2) 32-50 Amp Range





Semiconductor Fuse
1-50A, 700 Volts

BIF Document
35785307
Size 14 × 51



Pre-Arcing Time-Current Characteristic Curves

FWP 1A14F-50A14F

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

BUSSMANN
P.O. Box 14460
St. Louis, MO 63178-4460
U.S.A.
Phone: 636-394-2877
Fax: 800-544-2570
Int'l Fax: 636-527-1413

BUSSMANN U.K.
Burton-on-the-Wolds
Leicestershire LE12 5TH
England
Phone: 44-1509-882737
Fax: 44-1509-882786

BUSSMANN DENMARK
5 Literbuen
DK-2740 Skovlunde
Copenhagen, Denmark
Phone: 45-4485-0900
Fax: 45-4485-0901

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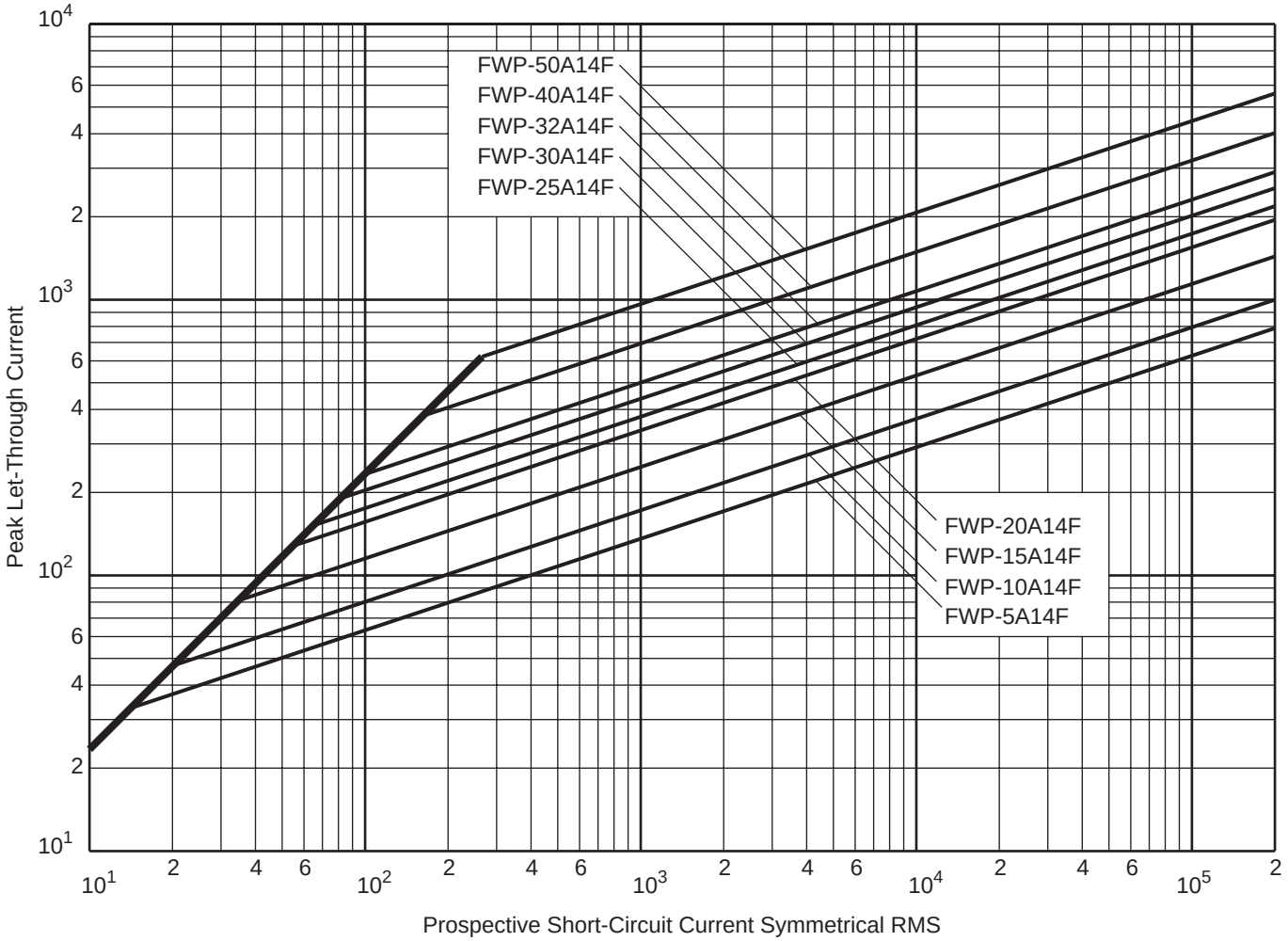
1-17-01 SB00233



Peak Let-Through Cut-Off Current Characteristic Curves

FWP 1A14F-50A14F

Approved: **NN** | Page **2 of 2**

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