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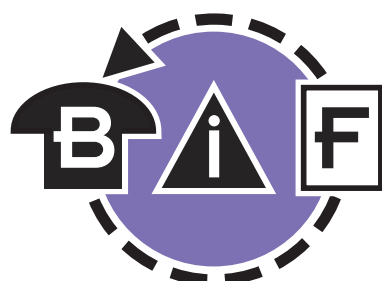
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North American

Introduction



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Voltage	AC	DC	Ampere Range
130	X	X	1000-4000
150	X	X	70-1000
250	X	X	35-2500
500	X	X	35-1600
600	X	—	1-1000
700	X	X	5-1200
800	—	X	40-600
1000	X	—	35-2000

General Information

Bussmann offers a complete range of North American blade and flush-end style fuses and accessories. Their design and construction were optimized to provide:

- Low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability
- Low arc voltage
- Excellent DC performance

North American style fuses provide an excellent solution for medium power applications. While there are currently no published standards for these fuses, the industry has standardized on mounting centers that accept Bussmann fuses.

Voltage Rating

All Bussmann North American style fuses are tested at their rated voltage. Bussmann should be consulted for applications exceeding those values.

Accessories

External and internal open fuse indication is available for selected portions of the North American line. Fuseblocks are available for most applications.


North American

FWA 130V 1000-4000A



Type	Rated Current RMS-Amps	Electrical Characteristics			Ordering Information			Dimensions	Curves
		I ² t (A ² Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	See Page
		Pre-arc	Clearing at 130V						
FWA 130V	1000	170000	460000	60	FWA-1000AH	1	3.3	Fig. 1	page 21
	1200	270000	730000	70	FWA-1200AH				
	1500	520000	1400000	78	FWA-1500AH				
	2000	860000	2400000	108	FWA-2000AH				
	2500	1500000	4100000	130	FWA-2500AH				
	3000	2100000	5700000	150	FWA-3000AH				
	4000	3400000	9200000	257	FWA-4000AH			Fig. 2	

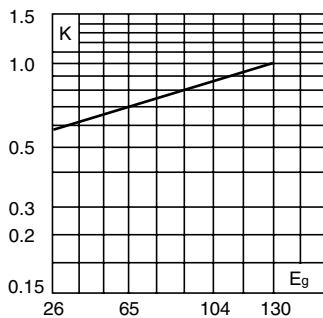
- Interrupting rating 200kA RMS Symmetrical.
- Watts loss provided at rated current.
- (130 Vdc/Interrupting Rating 50kA) U.L. Recognition on 1000 through 2000 amperes.
- See accessories on page 20.

1 kg = 2.2 lbs 1 lb = 0.45 kg

Electrical Characteristics

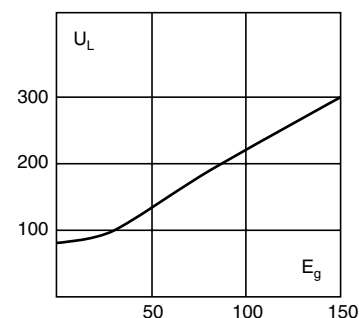
Total Clearing I²t

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).



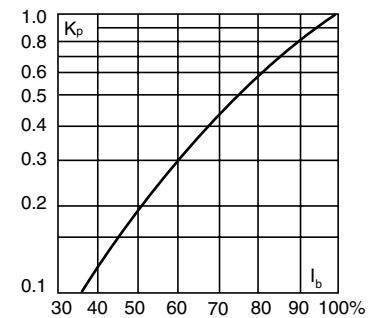
Arc Voltage

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.





North American FWA 130V 1000-4000A



Dimensions

Fig. 1: 1000-3000 Amp Range

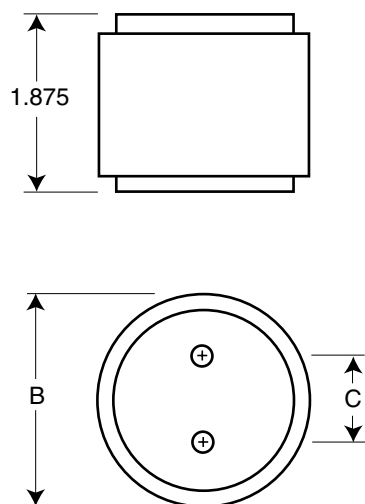
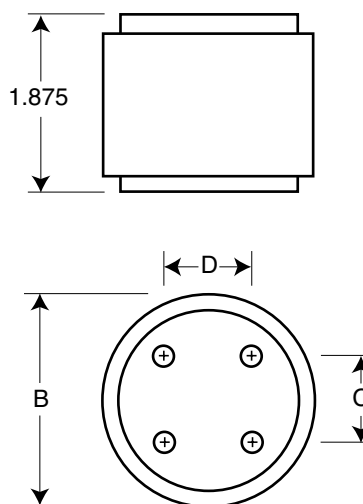


Fig. 2: 4000 Amp Range



Order #	Fig.	B	C	D	Thread Depth
FWA-1000AH-2000AH	1	2.0	1.0	—	Tapped $\frac{3}{8}$ "-24 $\times$ $\frac{1}{2}$ "
FWA-2500AH-3000AH	1	3.0	1.5	—	Tapped $\frac{1}{2}$ "-20 $\times$ $\frac{1}{2}$ "
FWA-4000AH	2	3.5	1.5	1.5	Tapped $\frac{1}{2}$ "-20 $\times$ $\frac{1}{2}$ "

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



North American FWA 150V 70-1000A



Electrical Characteristics					Ordering Information			Dimensions	Curves
Type	Rated Current RMS-Amps	I²t (A² Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	See Page
		Pre-arc	Clearing at 150V						
FWA 150V	70	470	4000	6.9	FWA-70B	1	1.76	Fig. 1	page 21
	80	670	6000	7.7	FWA-80B				
	100	1200	12000	9.0	FWA-100B				
	125	1870	18000	11.2	FWA-125B				
	150	2700	26000	13.5	FWA-150B				
	200	4780	45000	17.6	FWA-200B				
	250	7470	70000	22.5	FWA-250B				
	300	10760	100000	27.0	FWA-300B				
	350	15700	140000	30.6	FWA-350B				
	400	20300	180000	35.2	FWA-400B				
	500	39000	120000	35.0	FWA-500A	5	2.42	Fig. 2	
	600	46000	140000	47.0	FWA-600A				
	700	75000	220000	49.0	FWA-700A				
	800	92000	280000	58.0	FWA-800A				
	1000	170000	510000	60.0	FWA-1000A				

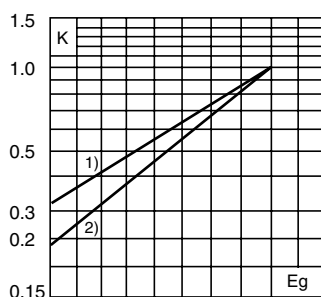
- Interrupting rating 100kA RMS Symmetrical for ampere ratings 70-400.
- Interrupting rating 200kA RMS Symmetrical for ampere ratings 450-1000.
- Watts loss provided at rated current.
- (150 Vdc/Interrupting rating 20kA) U.L. Recognition on 70- 800 amperes.
- (80 Vdc/Interrupting rating 100kA) U.L. Recognition on 70-400 amperes.
- See accessories on page 20.

1 kg = 2.2 lbs 1 lb = 0.45 kg

Electrical Characteristics

Total Clearing I²t

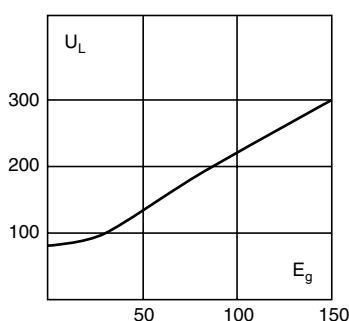
The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



- 1) 500-1000 Amp Range
2) 70-400 Amp Range

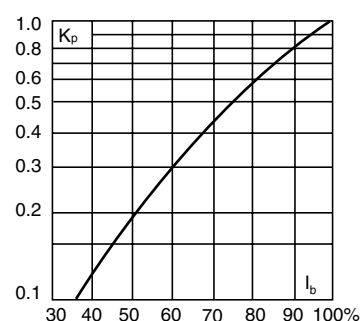
Arc Voltage

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.





North American FWA 150V 70-1000A

Dimensions

Fig. 1: 70-400 Amp Range

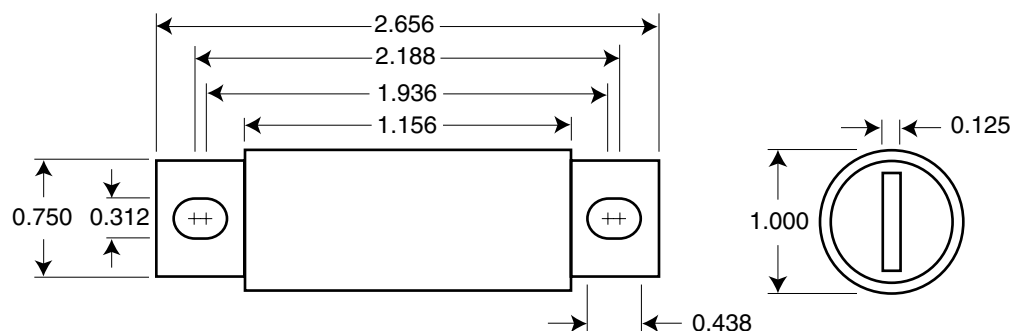
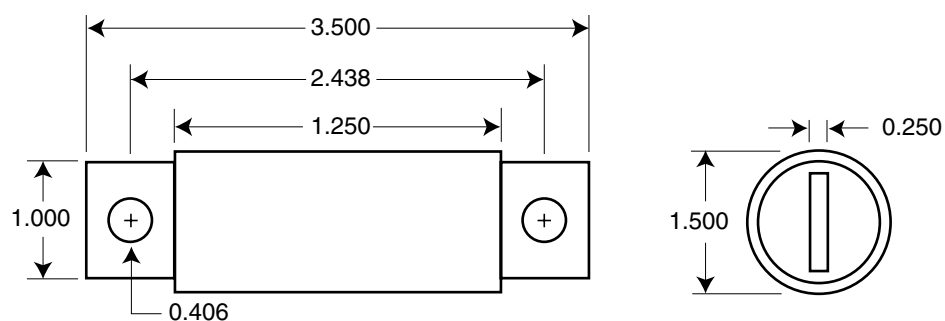


Fig. 2: 500-1000 Amp Range



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


North American

FWX 250V 35-2500A



Electrical Characteristics					Ordering Information			Dimensions	Curves
Type	Rated Current RMS-Amps	I²t (A² Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	See Page
		Pre-arc	Clearing at 250V						
FWX 250V	35	50	230	4.2	FWX-35A	5	1.40	Fig. 1	page 22
	40	60	310	5.2	FWX-40A				
	45	80	390	5.7	FWX-45A				
	50	100	520	6.0	FWX-50A				
	60	140	740	8.1	FWX-60A				
	70	330	1400	7.2	FWX-70A	1	0.32		
	80	430	1850	8.1	FWX-80A				
	90	570	2450	9.0	FWX-90A				
	100	740	3150	10.0	FWX-100A				
	125	1130	4850	12.5	FWX-125A				
	150	1620	6950	15.7	FWX-150A				
	175	2170	9300	18.5	FWX-175A				
	200	2790	12000	22	FWX-200A				
	225	3210	14700	24	FWX-225A				
	250	3960	18100	27	FWX-250A				
	275	4720	21600	31	FWX-275A				
	300	6000	27300	32	FWX-300A				
	350	10600	48600	39	FWX-350A				
	400	14500	66100	44	FWX-400A				
	450	22100	101000	49	FWX-450A				
	500	28000	128000	54	FWX-500A				
	600	41100	188000	62	FWX-600A				
	700	48800	190000	72	FWX-700A				
	800	59000	230000	84	FWX-800A		0.90		
	1000	44000	360000	100	FWX-1000AH				
	1200	92000	750000	103	FWX-1200AH				
	1500	120000	880000	140	FWX-1500AH				
	1600	160000	1200000	140	FWX-1600AH				
	2000	320000	2300000	151	FWX-2000AH				
	2500	670000	4700000	163	FWX-2500AH				

† U.L. Recognition on 35 through 800 amperes only.

1 kg = 2.2 lbs 1 lb = 0.45 kg

- Interrupting rating 200kA RMS Symmetrical.
- Watts loss provided at rated current.
- (250 Vdc/Interrupting rating 20kA) U.L. Recognition on 35 through 800 amperes only.
- See accessories on page 20.

BIF document: 720005





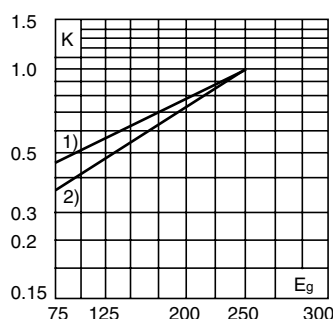
North American FWX 250V 35-2500A



Electrical Characteristics

Total Clearing I^2t

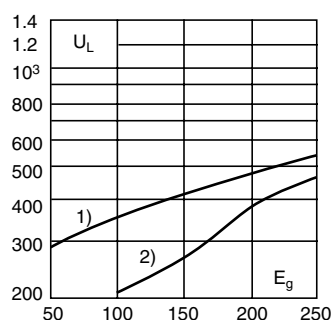
The total clearing I^2t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K , given as a function of applied working voltage, E_g , (RMS).



1) 35-800 Amp Range
2) 1000-2500 Amp Range

Arc Voltage

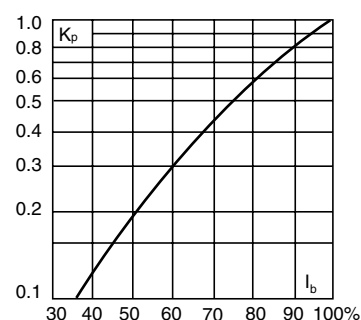
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15%.



1) 35-800 Amp Range
2) 1000-2500 Amp Range

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.



Dimensions

Fig. 1: 35-800 Amp Range

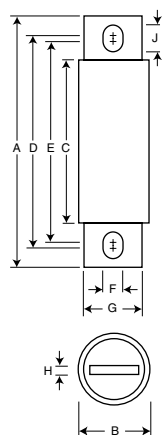


Fig. 2: 1000-1200 Amp Range

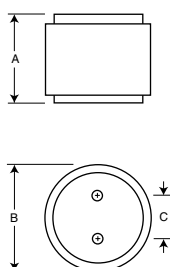
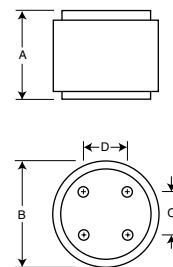


Fig. 3: 1500-2500 Amp Range



Order #	Fig.	A	B	C	D	E	F	G	H	J	Thread Depth
FWX-35A-60A	1	3.19	0.81	1.59	2.59	2.25	0.34	0.63	0.13	0.52	—
FWX-70A-200A	1	3.13	1.22	1.59	2.44	2.19	0.34	1.00	0.19	0.47	—
FWX-225A-600A	1	3.84	1.50	1.59	2.94	2.25	0.41	1.00	0.25	0.75	—
FWX-700A-800A	1	3.84	2.00	1.59	3.03	2.28	0.41	1.50	0.25	0.78	—
FWX-1000AH-1200AH	2	2.59	3.00	1.50	—	—	—	—	—	—	Tapped $\frac{3}{8}$ "-24 x $\frac{1}{2}$ "
FWX-1500AH-2500AH	3	2.59	3.50	1.50	1.50	—	—	—	—	—	Tapped $\frac{3}{8}$ "-24 x $\frac{1}{2}$ "

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





North American FWH 500V 35-1600A



Electrical Characteristics					Ordering Information			Dimensions	Curves
Type	Rated Current RMS-Amps	I²t (A² Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	See Page
		Pre-arc	Clearing at 500V						
FWH 500V	35	34	150	8	FWH-35B	5	0.71	Fig. 1	page 23
	40	76	320	7.5	FWH-40B				
	45	105	450	7.5	FWH-45B				
	50	135	670	7.5	FWH-50B				
	60	210	900	9.9	FWH-60B				
	70	210	900	10.6	FWH-70B				
	80	305	1400	12.7	FWH-80B	1	0.21		
	90	360	1600	15	FWH-90B				
	100	475	2000	17	FWH-100B				
	125	800	3500	25	FWH-125B				
	150	1100	4600	30	FWH-150B				
	175	1450	6200	35	FWH-175B				
	200	1900	8500	40	FWH-200B		0.57		
	225	4600	23300	39	FWH-225A				
	250	6300	32200	41	FWH-250A				
	275	7900	40300	46	FWH-275A				
	300	9800	49800	51	FWH-300A				
	325	13700	63800	53	FWH-325A		1.00		
	350	14500	72900	58	FWH-350A				
	400	19200	96700	65	FWH-400A				
	450	24700	127000	74	FWH-450A				
	500	29200	149000	84	FWH-500A		2.14		
	600	41300	206000	108	FWH-600A				
	700	55000	298000	120	FWH-700A				
	800	76200	409000	129	FWH-800A		4.62		
	1000	92000	450000	145	FWH-1000A				
	1200	122000	600000	180	FWH-1200A				
	1400	200000	1000000	210	FWH-1400A		11.66		Fig. 2
	1600	290000	1400000	230	FWH-1600A				

†U.L. Recognition on 35 through 1200 amperes only.
CSA Component Acceptance: 35 - 1600A.

- Interrupting rating 200kA RMS Symmetrical.
- Watts loss provided at rated current.
- (500 Vdc/Interrupting rating 50kA) U.L. Recognition on 35 through 800 amperes only.
- See accessories on page 20.

1 kg = 2.2 lbs 1 lb = 0.45 kg





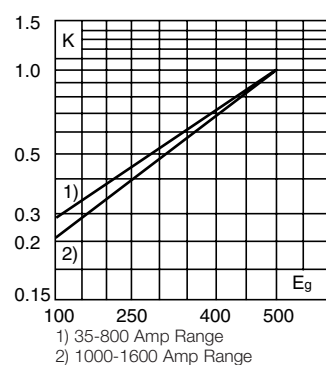
North American FWH 500V 35-1600A



Electrical Characteristics

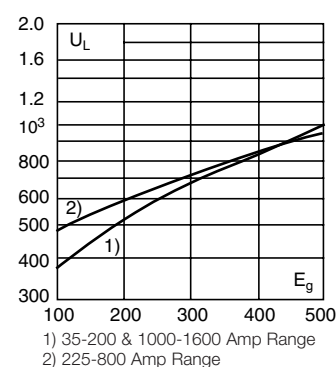
Total Clearing I^2t

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).



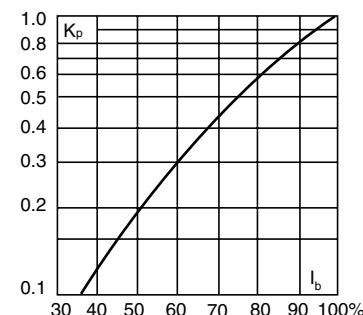
Arc Voltage

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.



Dimensions

Fig. 1: 35-1200 Amp Range

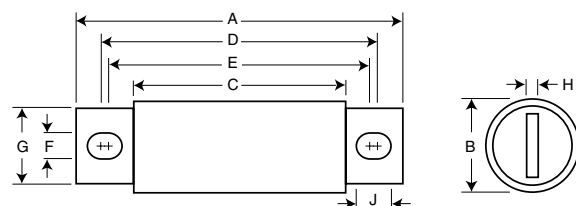
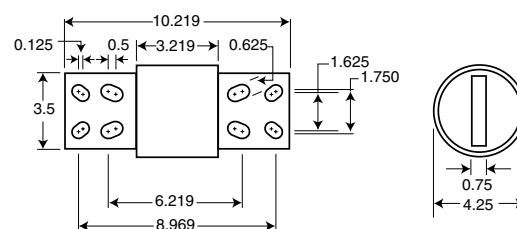


Fig. 2: 1400-1600 Amp Range



Order #	Fig.	A	B	C	D	E	F	G	H	J
FWH-35B-60B	1	3.188	0.813	1.593	2.541	2.193	0.344	0.719	0.125	0.518
FWH-70B-100B	1	3.625	0.947	1.736	2.853	2.807	0.352	0.750	0.125	0.375
FWH-125B-200B	1	3.625	1.156	1.836	2.892	2.768	0.344	1.000	0.188	0.406
FWH-225A-400A	1	4.340	1.500	2.090	3.440	2.750	0.410	1.000	0.250	0.750
FWH-450A-600A	1	4.340	2.000	2.090	3.530	2.780	0.410	1.500	0.250	0.780
FWH-700A-800A	1	6.340	2.500	2.090	4.970	3.440	0.530	2.000	0.380	1.300
FWH-1000A-1200A	1	6.969	3.000	3.219	5.465	4.475	0.625	2.375	0.438	1.120
FWH-1400A-1600A	2	See Drawing								

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





North American KAC 600V 1-1000A



For new installations, Bussmann recommends the 700 volt FWP series fuse. The 600V fuses are supplied as replacements only.

Type	Ordering Information			Dimensions	
	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	
KAC 600V	KAC-1 KAC-7 KAC-17.5 KAC-2 KAC-8 KAC-20 KAC-3 KAC-9 KAC-25 KAC-4 KAC-10 KAC-30 KAC-5 KAC-12 KAC-6 KAC-15	10	0.50	Fig. 1	
	KAC-35 KAC-45 KAC-60 KAC-40 KAC-50		1.40		
	KAC-70 KAC-90 KAC-80 KAC-100	5	1.56	Fig. 2	
	KAC-110 KAC-150 KAC-200 KAC-125 KAC-175	1	0.78		
	KAC-225 KAC-300 KAC-400 KAC-250 KAC-350		1.92		
	KAC-450 KAC-600 KAC-800 KAC-500 KAC-700		3.16	Fig. 1	
	KAC-1000		6.24		

†U.L. Recognition on 1 through 600 amperes only. 1 kg = 2.2 lbs 1 lb = 0.45 kg

■ Interrupting rating 200kA RMS Symmetrical.

■ Consult Bussmann for DC ratings.

■ See accessories on page 20.

Dimensions

Fig. 1: 1-30 & 450-1000 Amp Range

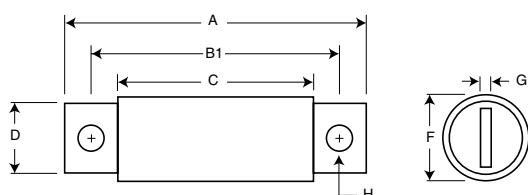
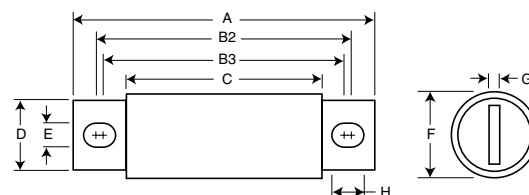


Fig. 2: 35-400 Amp Range



Order #	Fig.	A	B1	B2	B3	C	D	E	F	G	H
KAC-1-30	1	2.875	2.500	—	—	1.875	0.406	—	0.563	0.063	0.257
KAC-35-60	2	4.375	—	3.750	3.500	2.750	0.625	0.343	0.813	0.094	0.468
KAC-70-100	2	5.000	—	4.063	3.656	2.750	0.750	0.406	1.000	0.125	0.609
KAC-110-200	2	5.140	—	4.390	3.766	2.906	1.000	0.406	1.500	0.188	0.718
KAC-225-400	2	6.182	—	4.815	4.565	3.000	1.625	0.562	2.000	0.250	0.687
KAC-450-800	1	6.250	4.750	—	—	3.063	2.000	—	2.500	0.250	0.563
KAC-1000	1	7.250	4.750	—	—	3.063	2.750	—	3.500	0.375	0.563

Dimension in inches.

1mm = 0.0394" 1" = 25.4mm





North American KBC 600V 35-800A



For new installations, Bussmann recommends the 700 Volt FWP series fuse. The 600V fuses are supplied as replacements only.

Type	Ordering Information			Dimensions	
	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	
KBC 600V	KBC-35 KBC-45 KBC-60 KBC-40 KBC-50	10	1.40	Fig. 1	
	KBC-70 KBC-90 KBC-100	5	1.44	Fig. 2	
	KBC-110 KBC-150 KBC-200 KBC-125 KBC-175	1	0.48	Fig. 1	
	KBC-225 KBC-300 KBC-400 KBC-250 KBC-350		0.77		
	KBC-450 KBC-500 KBC-600		1.32		
	KBC-800		4.50	Fig. 3	

†U.L. Recognition on 35 through 600 amperes only. 1 kg = 2.2 lbs 1 lb = 0.45 kg

■ Interrupting rating 200kA RMS Symmetrical.

■ Consult Bussmann for DC ratings.

■ See accessories on page 20.

Dimensions

Fig. 1: 35-60 and 110-600 Amp Range

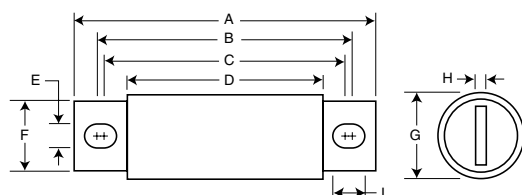


Fig. 2: 70-100 Amp Range

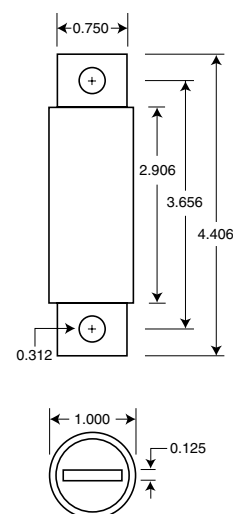
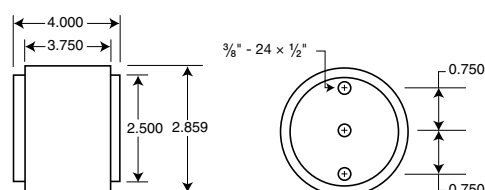


Fig. 3: 800 Amp Range



Order #	Fig.	A	B	C	D	E	F	G	H	I
KBC-35-60	1	4.375	3.750	3.500	2.750	0.343	0.625	0.813	0.094	0.468
KBC-70-100	2	See Drawing								
KBC-110-200	1	4.406	3.719	3.594	2.906	0.312	0.875	1.219	0.187	0.375
KBC-225-400	1	5.125	4.188	3.563	2.906	0.406	1.000	1.500	0.250	0.719
KBC-450-600	1	5.125	4.389	3.687	2.875	0.406	1.500	2.000	0.250	0.757
KBC-800	3	See Drawing								

Dimension in inches.

1mm = 0.0394" 1" = 25.4mm



North American FWP 700V 5-1200A



Electrical Characteristics					Ordering Information			Dimensions	Curves	
Type	Rated Current RMS-Amps	I²t (A² Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	See Page or (BIF #)	
		Pre-arc	Clearing at 700V							
FWP 700V	5	1.6	10	1.5	FWP-5B	10	2.25	Fig. 1	page 24 (35785316)	
	10	3.6	20	4	FWP-10B					
	15	10	75	5.5	FWP-15B					
	20	26	180	6	FWP-20B					
	25	44	340	7	FWP-25B					
	30	58	450	9	FWP-30B					
	35	34	160	12	FWP-35B	5	1.21		page 24 (35785308)	
	40	76	320	12	FWP-40B					
	50	135	600	12	FWP-50B					
	60	210	950	15.5	FWP-60B					
	70	305	2000	18	FWP-70B	1	0.24			page 25 (361)
	80	360	2400	21	FWP-80B					
	90	415	2700	25	FWP-90B					
	100	540	3500	27	FWP-100B					
	125	1800	7300	28	FWP-125A					
	150	2900	11700	32	FWP-150A		0.65			
	175	4200	16700	35	FWP-175A					
	200	5500	22000	43	FWP-200A					
	225	7700	31300	45	FWP-225A		1.17			
	250	10500	42500	48	FWP-250A					
	300	17600	71200	58	FWP-300A					
	350	23700	95600	65	FWP-350A					
	400	31000	125000	78	FWP-400A					
	450	36400	137000	94	FWP-450A		2.39			
	500	45200	170000	107	FWP-500A					
	600	66700	250000	122	FWP-600A					
	700	54000	300000	125	FWP-700A					
	800	78000	450000	140	FWP-800A					
	900	91500	530000	150	FWP-900A	6.60	Fig. 2	page 24 (35785308)		
	1000	120000	600000	170	FWP-1000A					
	1200	195000	1100000	190	FWP-1200A		Fig. 3			

- Interrupting rating 200kA RMS Symmetrical.
- Watts loss provided at rated current.
- (700 Vdc/Interrupting rating 50kA) U.L. Recognition on 5 through 800 amperes only.
- CSA Component Acceptance: 35 - 100A & 700 - 1200A.
- See accessories on page 20.



1 kg = 2.2 lbs 1 lb = 0.45 kg





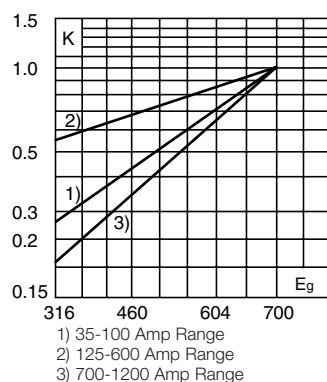
North American FWP 700V 5-1200A



Electrical Characteristics

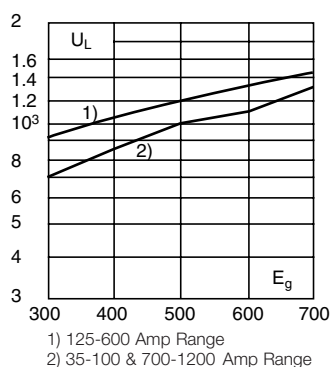
Total Clearing I^2t

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).



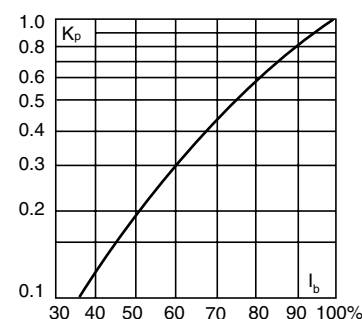
Arc Voltage

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.



Dimensions

Fig. 1: 5-800 Amp Range

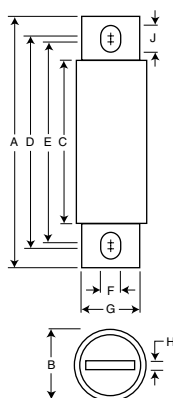


Fig. 2: 900-1000 Amp Range

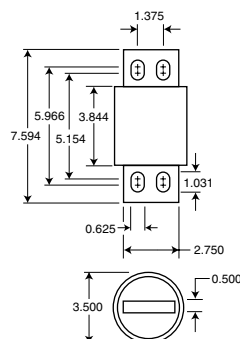
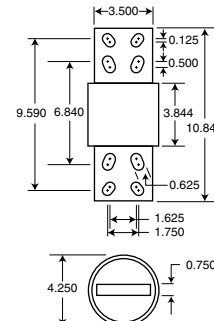


Fig. 3: 1200 Amp Range



Order #	Fig.	A	B	C	D	E	F	G	H	J
FWP-5B-30B	1	2.870	0.563	1.855	2.477	2.477	0.250	0.405	0.063	0.250
FWP-35B-60B	1	4.375	0.813	2.750	3.708	3.312	0.344	0.725	0.125	0.542
FWP-70B-100B	1	4.406	0.947	2.594	3.625	3.563	0.344	0.750	0.125	0.375
FWP-125A-200A	1	5.090	1.500	2.840	4.190	3.500	0.410	1.000	0.250	0.750
FWP-225A-400A	1	5.090	2.000	2.840	4.280	3.530	0.410	1.500	0.250	0.780
FWP-450A-600A	1	7.090	2.500	2.840	5.720	4.190	0.530	2.000	0.380	1.300
FWP-700A-800A	1	6.630	2.000	2.844	5.562	5.062	0.625	1.500	0.250	0.875
FWP-900A-1000A	2	See Drawing								
FWP-1200A	3	See Drawing								

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




North American

FWJ 1000V 35-2000A



Electrical Characteristics					Ordering Information			Dimensions	Curves
Type	Rated Current RMS-Amps	I²t (A² Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	See Page or (BIF #)
		Pre-arc	Clearing at 1000V						
FWJ 1000V	35	210	2000	7	FWJ-35A	10	4.18	Fig. 1	page 25 (35785303)
	40	300	2500	8	FWJ-40A				
	50	470	3500	10	FWJ-50A				
	60	670	5000	11	FWJ-60A				
	70	1100	6900	12	FWJ-70A				
	80	1550	9700	13	FWJ-80A				
	90	1900	12000	14	FWJ-90A				
	100	2800	17500	15	FWJ-100A				
	125	4800	35000	16	FWJ-125A	1	4.40		
	150	6300	45000	25	FWJ-150A				
	175	7500	65000	30	FWJ-175A				
	200	11700	80000	32	FWJ-200A				
	250	16000	112000	50	FWJ-250A		4.84		
	300	23500	164000	56	FWJ-300A				
	350	33000	231000	62	FWJ-350A				
	400	47000	330000	67	FWJ-400A				
	500	39500	329000	95	FWJ-500A	5.28			
	600	61000	520000	105	FWJ-600A				
	800	87000	500000	182	FWJ-800A				
	1000	190000	1100000	206	FWJ-1000A				
	1200	370000	2100000	240	FWJ-1200A				
	1400	470000	2700000	248	FWJ-1400A				
	1600	700000	4000000	267	FWJ-1600A				
	1800	925000	5300000	239	FWJ-1800A				
	2000	1330000	7600000	244	FWJ-2000A				

†U.L. Recognition on 35 through 600 amperes only.

- Interrupting rating 25kA for 35 through 200 amperes.
- Interrupting rating 100kA for 250 through 2000 amperes.
- Watts loss provided at rated current.
- (800 Vdc/Interrupting rating 50kA) U.L. Recognition on 35-200 and 450-600 amperes.
- See accessories on page 20.

1 kg = 2.2 lbs 1 lb = 0.45 kg





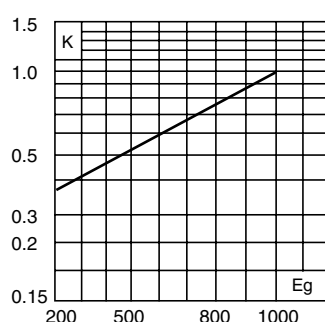
North American FWJ 1000V 35-2000A



Electrical Characteristics

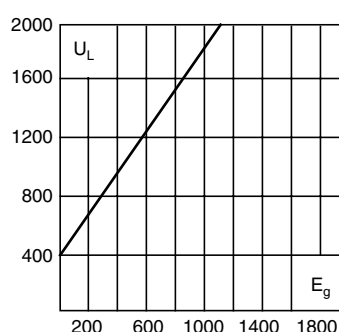
Total Clearing I^2t

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).



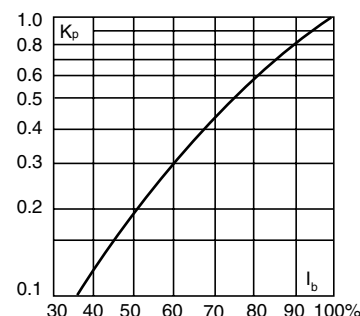
Arc Voltage

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%.



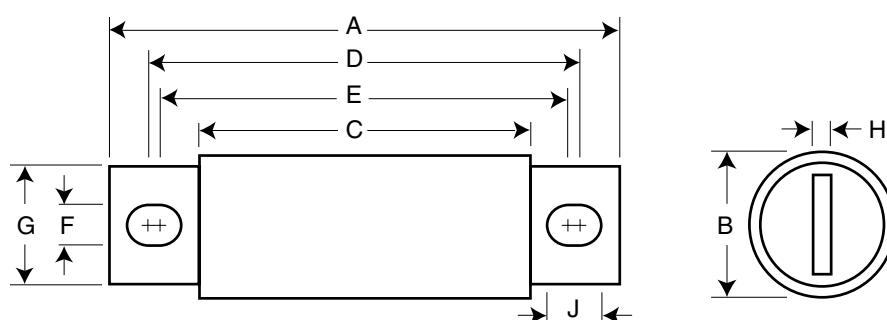
Power Losses

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.



Dimensions

Fig. 1: 35-2000 Amp Range



Order #	Fig.	A	B	C	D	E	F	G	H	J
FWJ-35A-60A	1	5.000	0.940	3.110	4.235	4.180	0.352	0.750	0.125	0.380
FWJ-70A-100A	1	4.932	1.125	3.085	4.266	4.156	0.352	1.000	0.188	0.407
FWJ-125A-200A	1	5.685	1.526	3.261	4.803	4.055	0.445	1.000	0.250	0.819
FWJ-250A-400A	1	5.768	2.000	3.500	4.811	4.150	0.433	1.500	0.250	0.764
FWJ-500A-600A	1	7.201	2.500	3.465	5.984	4.706	0.562	2.000	0.375	1.201
FWJ-800A-2000A	1	6.811	3.500	3.312	5.472	4.962	0.625	2.750	0.500	0.880

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





North American – Accessories

Fuse Bases (Blocks)

Modular Style

Bussmann offers a comprehensive line of fuse bases that provide the user with design and manufacturing flexibility. Two identical half bases make up a Buss modular fuse base. These “split” units can be panel mounted any distance apart to accommodate any length fuse.

Stud Type

The simpler design is the C5268 series modular fuse base. With this design, the fuse terminal and cable (with termination) are mounted on the same stud, minimizing labor needed for installation. The stud type base is available in the configuration shown in the table below.

Part No.	Max. Fuse Current Rating	Stud Heights	Stud Dia. & Threads
C5268-1	200A	1.00"	5/16-18
C5268-2	200A	1.75"	5/16-18
C5268-3	200A	0.75"	5/16-18
C5268-4	100A	1.00"	1/4-20
C5268-5	100A	1.75"	1/4-20

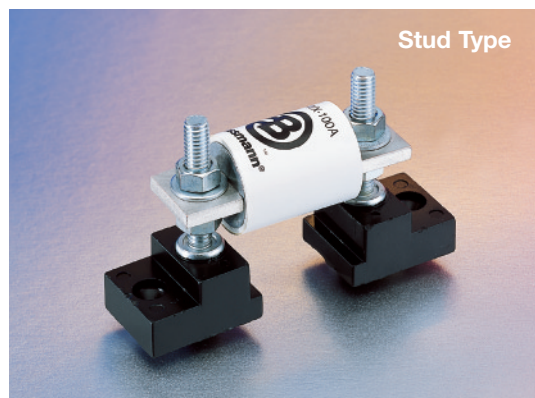
Connector Type

Bussmann also offers a modular style fuse base that utilizes a tin-plated connector (for wire termination and heat dissipation) and a plated-steel stud (for fuse mounting). The connector type fuse base is available in the configurations shown below. Consult Bussmann for additional product details.

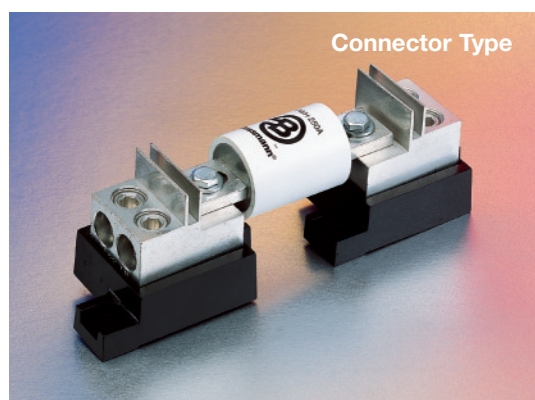
Modular Base Style	Max. Voltage	Max. Fuse Current Rating	BIF Document
1BS101	600V	100A	1206
1BS102	600V	400A	1207
1BS103	600V	400A	1208
1BS104	600V	600A	1209
BH-0xxx	700V	100A	1200
BH-1xxx	2500V	400A	1201
BH-2xxx	5000V	400A	1202
BH-3xxx	1250V	700A	1203

Fixed Center Base Style

Bussmann offers a comprehensive line of fixed mount style fuse bases under the trademark TRON® rectifier fuseblocks. The cable and fuse connections are similar to the stud type fuse base — both are mounted on the same stud. Consult Bussmann for complete product details.



Stud Type



Connector Type



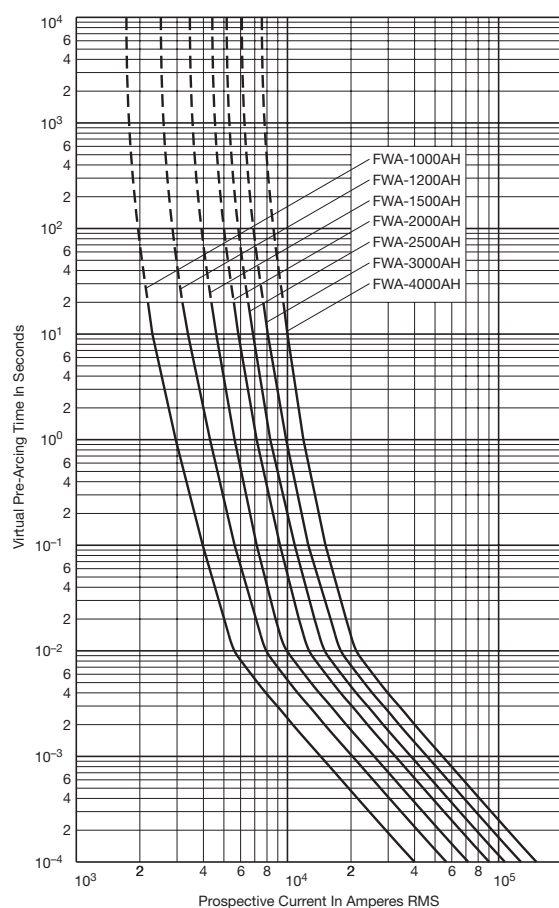
Fixed Center

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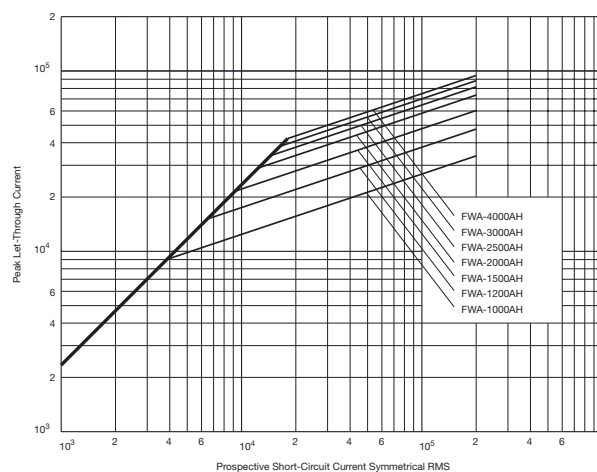


North American Curves

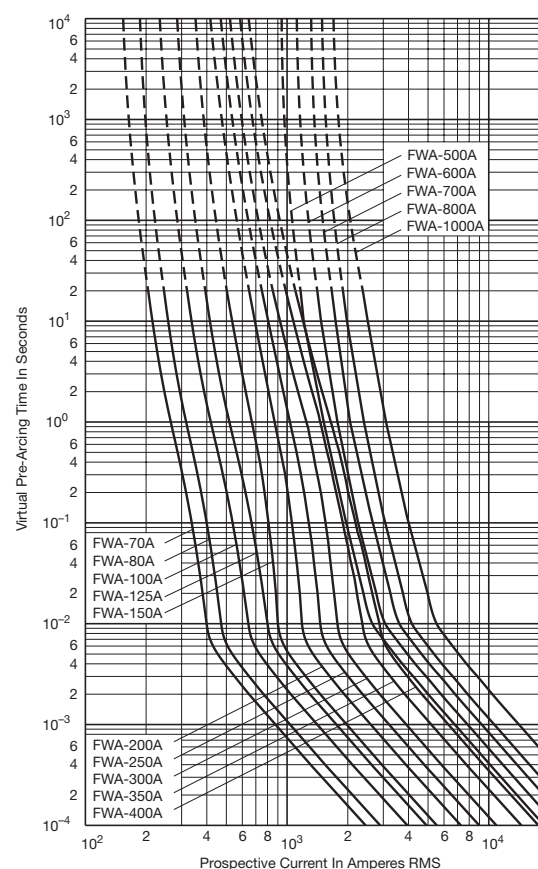
FWA-130V (1000-4000)A Time-Current Curve



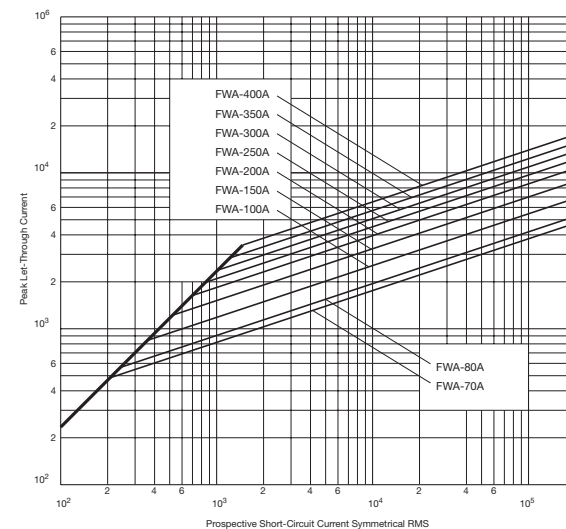
Peak Let-Through Curve



FWA-150V (70-1000)A Time-Current Curve



Peak Let-Through Curve



BIF document: 35785301

BIF document: 35785310

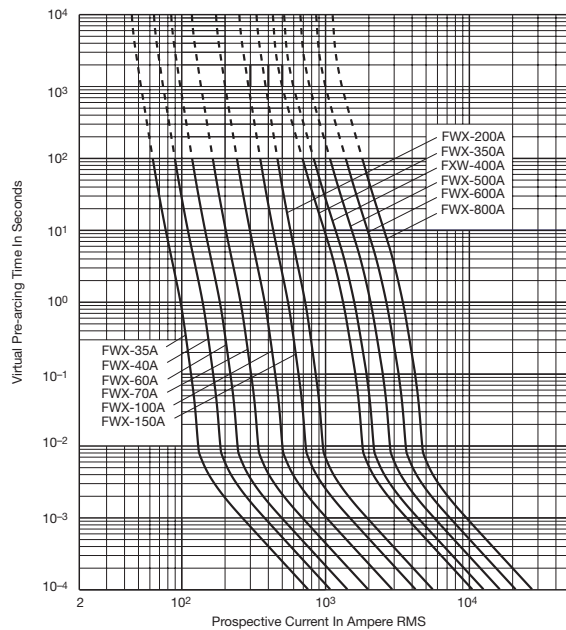


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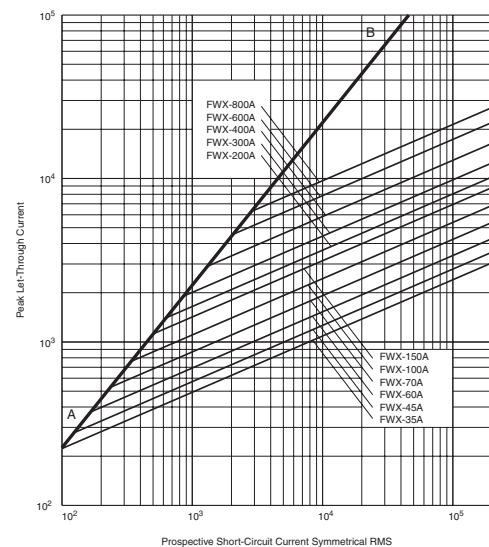


North American Curves

FWX 250V (35-800)A Time-Current Curve

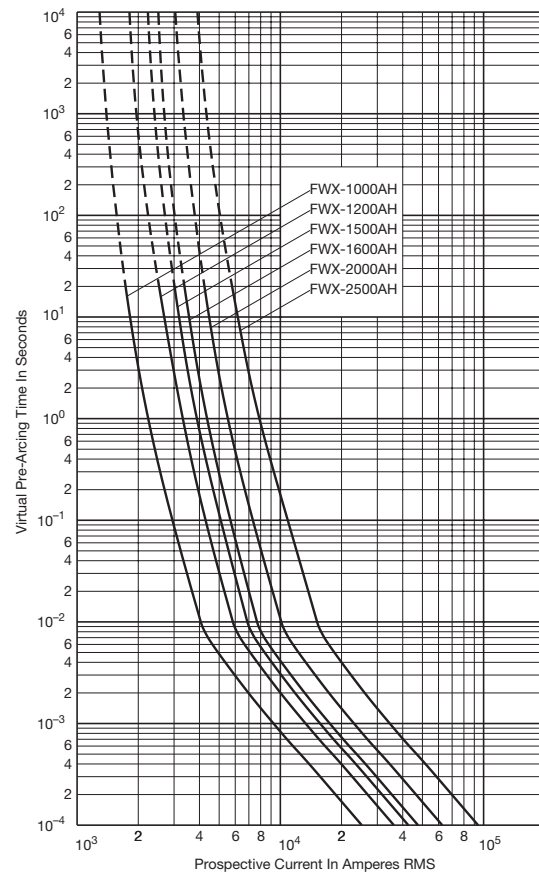


Peak Let-Through Curve

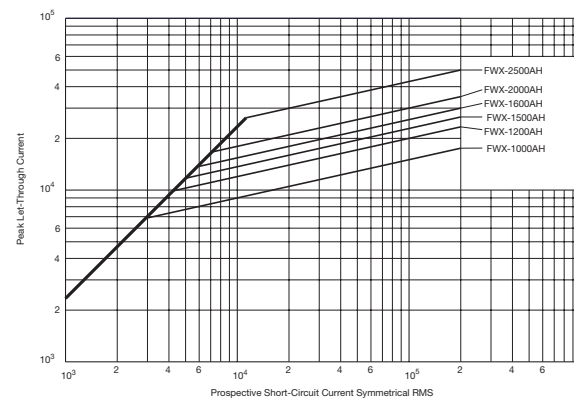


BIF document: 359

FWX 250V (1000-2500)AH Time-Current Curve



Peak Let-Through Curve



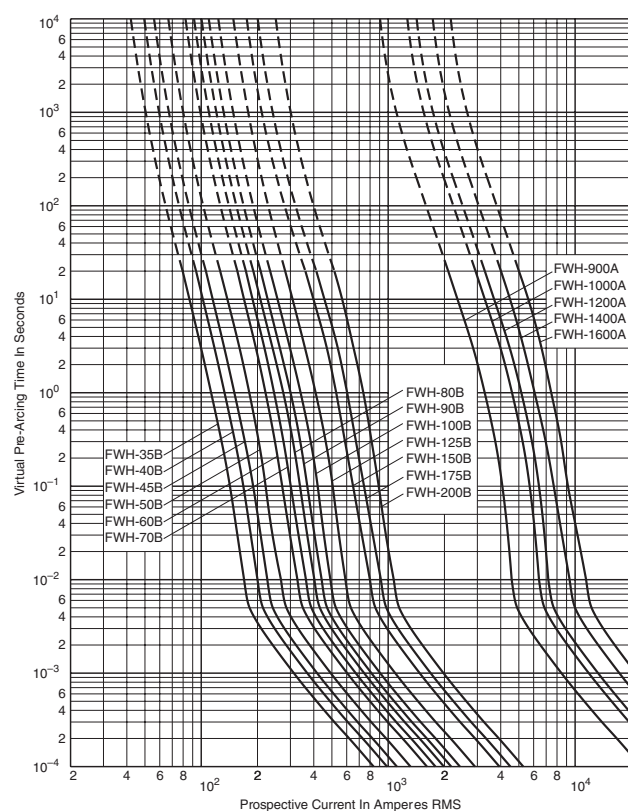
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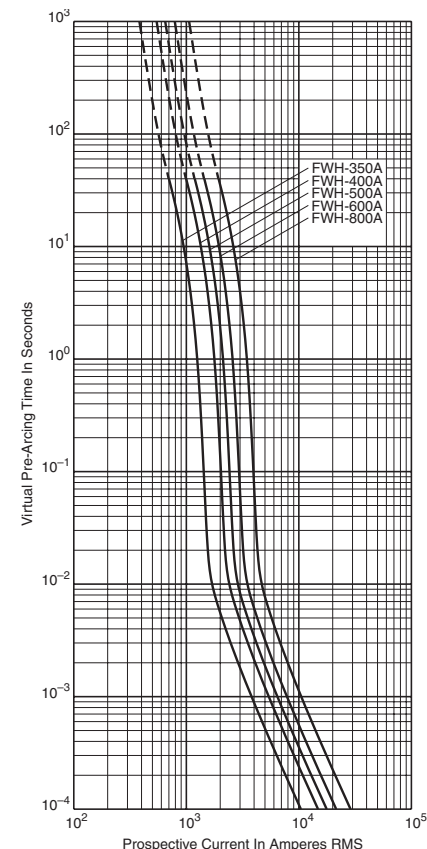


North American Curves

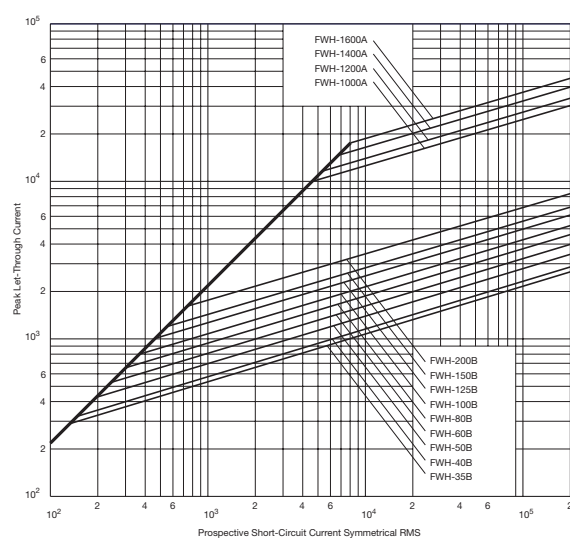
FWH 500V (35-200)B & (900-1600)A Time-Current Curve



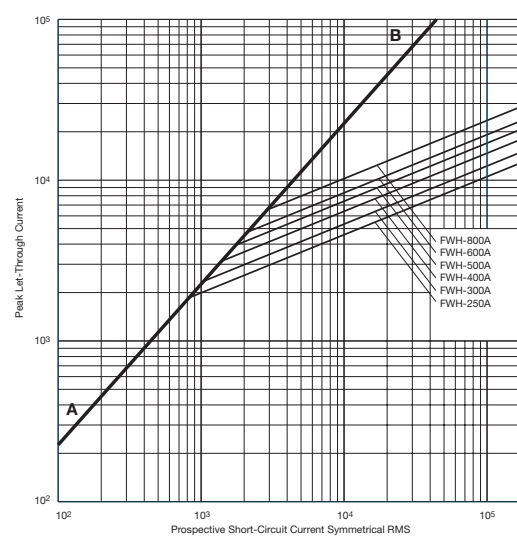
FWH 500V (225-800)A Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



BIF document: 35785304

BIF document: 360

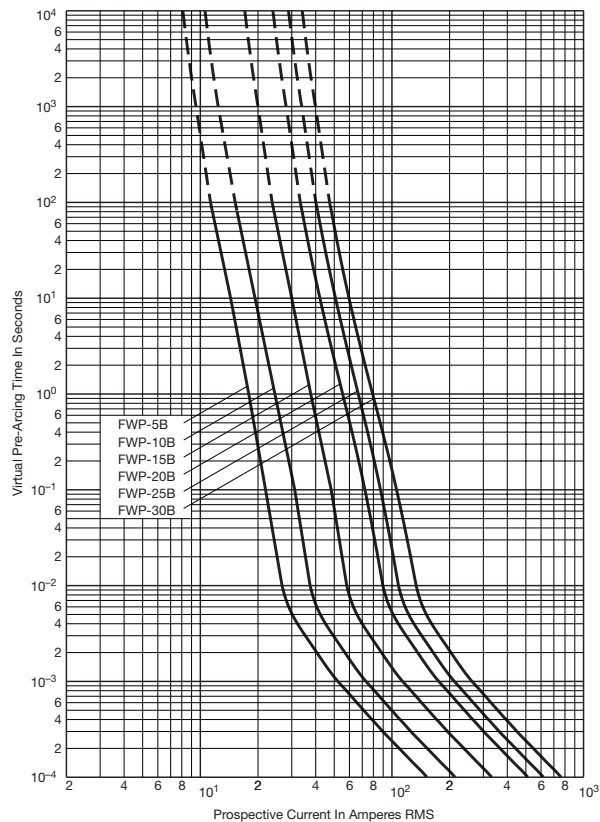


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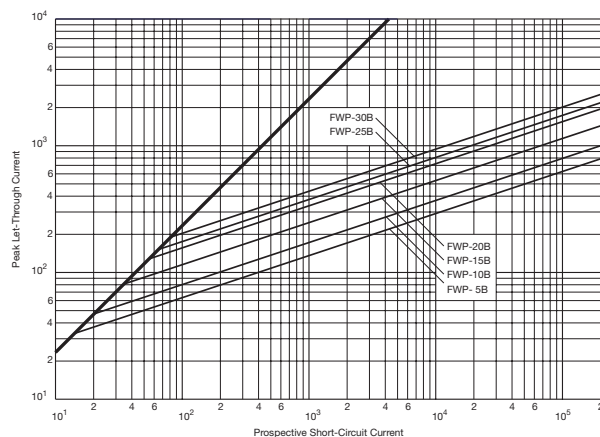


North American Curves

FWP 700V (5-30)B Time-Current Curve

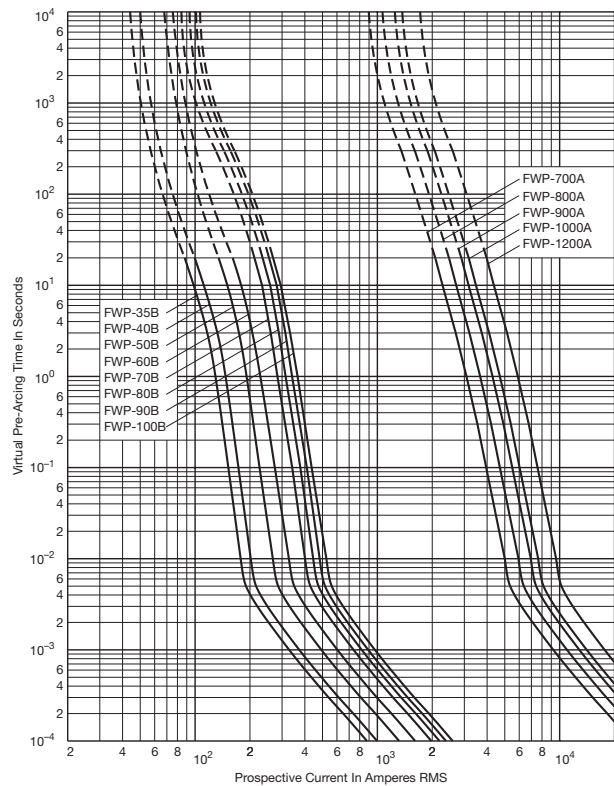


Peak Let-Through Curve

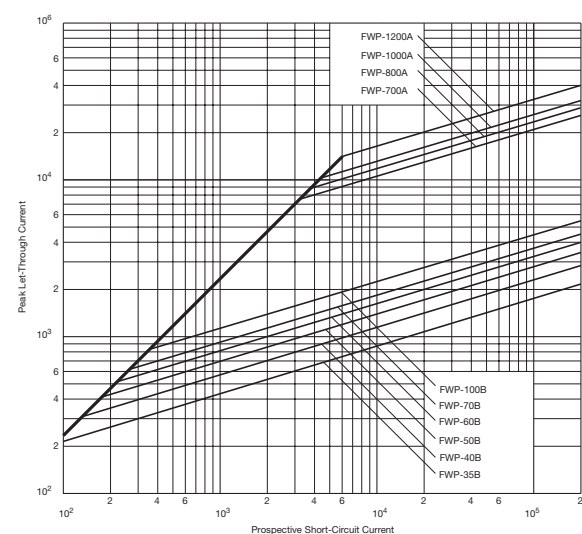


BIF document: 35785316

FWP 700V (35-100)B & (700-1200)A Time-Current Curve



Peak Let-Through Curve

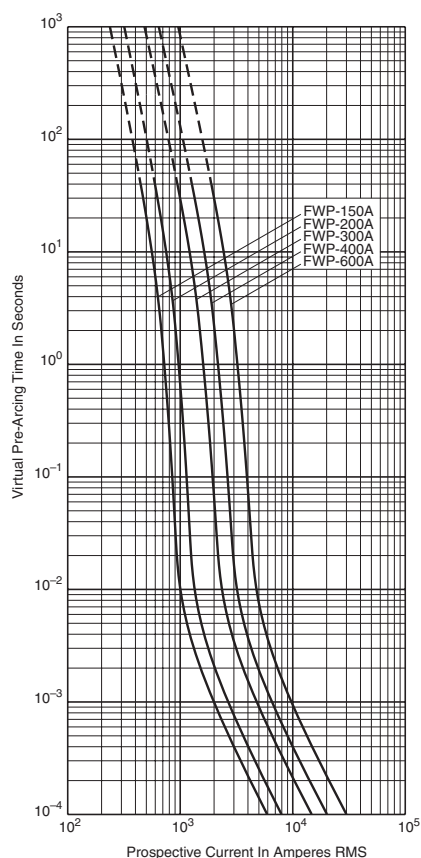


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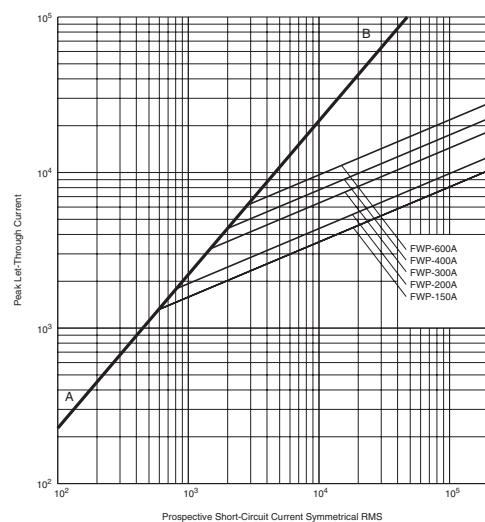


North American Curves

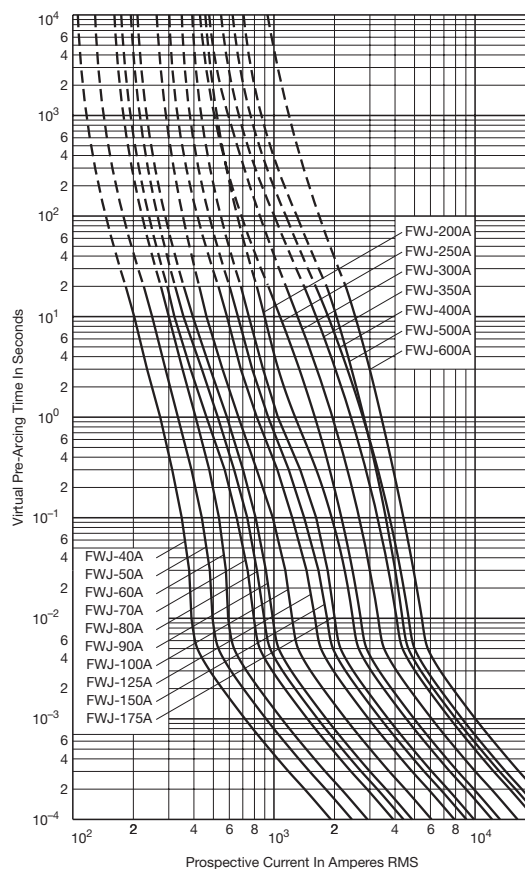
FWP 700V (125-600)A Time-Current Curve



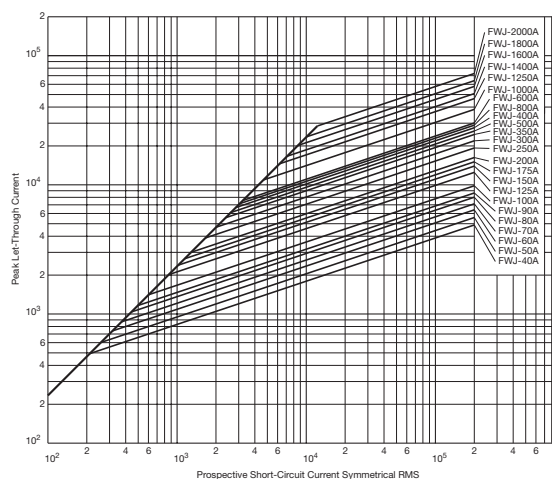
Peak Let-Through Curve



FWJ 1000V (35-600)A Time-Current Curve



Peak Let-Through Curve



BIF document: 361

BIF document: 35785303

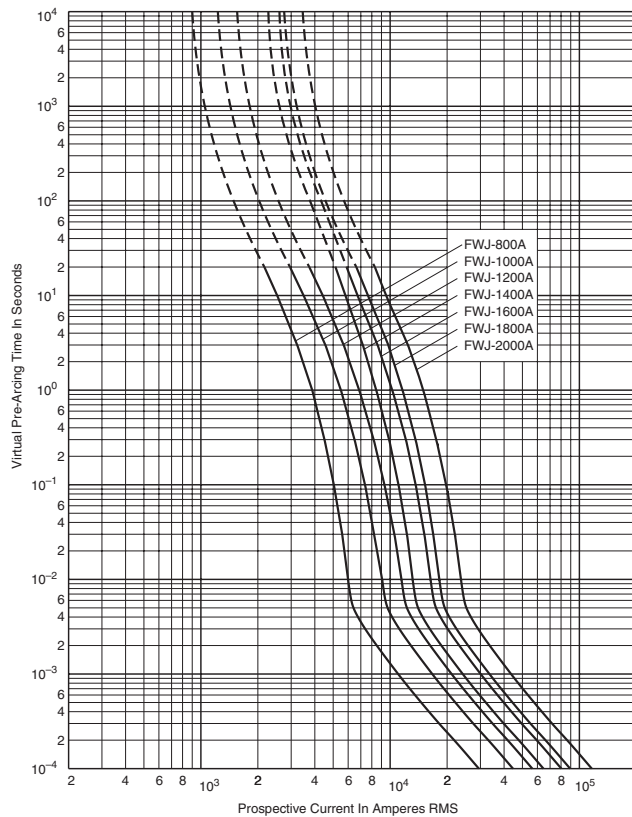


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or call Bussmann Information Fax ~ 636.527.1450

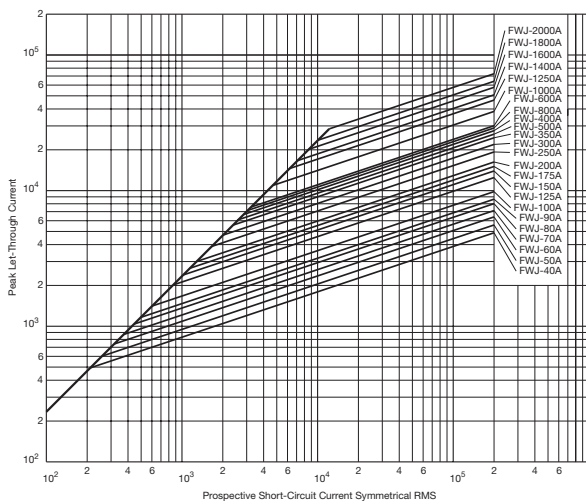


North American Curves

FWJ 1000V (800-2000)A Time-Current Curve



Peak Let-Through Curve



BIF document: 35785309