



# FWH 500V 35-1600A

Type	Electrical Characteristics				Ordering Information			Dimensions	Curves	
	Rated Current RMS-Amps	I <sup>2</sup> t (A <sup>2</sup> Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	BIF #	
		Pre-arc	Clearing at 500V							
FWH 500V	35	34	150	8	FWH-35B	5	0.71	Fig. 1	35785304	
	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	1	0.21			360
	80	305	1400	12.7	FWH-80B					
	90	360	1600	15	FWH-90B					
	100	475	2000	17	FWH-100B					
	125	800	3500	25	FWH-125B					
	150	1100	4600	30	FWH-150B		0.33			
	175	1450	6200	35	FWH-175B					
	200	1900	8500	40	FWH-200B					
	225	4600	23300	39	FWH-225A					
	250	6300	32200	41	FWH-250A					
	275	7900	40300	46	FWH-275A		0.57			
	300	9800	49800	51	FWH-300A					
	325	13700	63800	53	FWH-325A					
	350	14500	72900	58	FWH-350A					
	400	19200	96700	65	FWH-400A					
450	24700	127000	74	FWH-450A	1.00					
500	29200	149000	84	FWH-500A						
600	41300	206000	108	FWH-600A						
700	55000	298000	120	FWH-700A						
800	76200	409000	129	FWH-800A						
1000	92000	450000	145	FWH-1000A	2.14					
1200	122000	600000	180	FWH-1200A						
1400	200000	1000000	210	FWH-1400A		4.62				
1600	290000	1400000	230	FWH-1600A						
						11.66	Fig. 2	35785304		

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

1 kg = 2.2 lbs 1 lb = 0.45 kg

- 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.

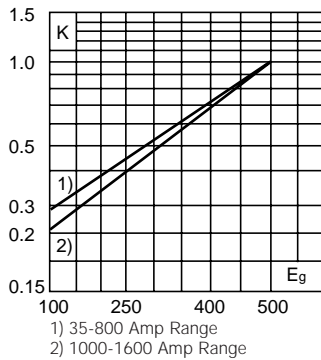


# FWH 500V 35-1600A

## Electrical Characteristics

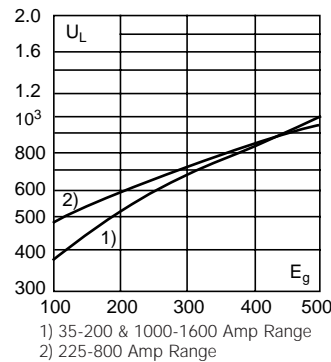
### Total Clearing I<sup>2</sup>t

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).



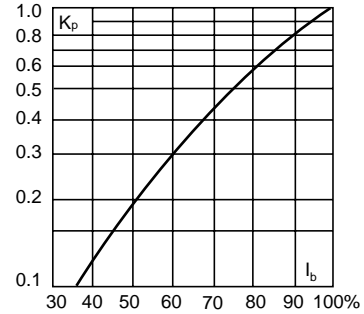
### Arc Voltage

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.



## Dimensions

Fig. 1: 35-1200 Amp Range

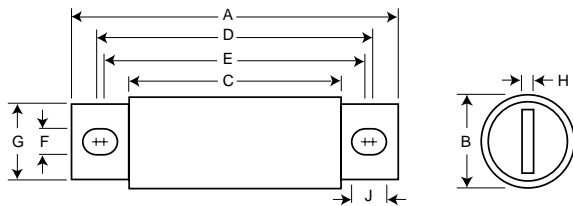
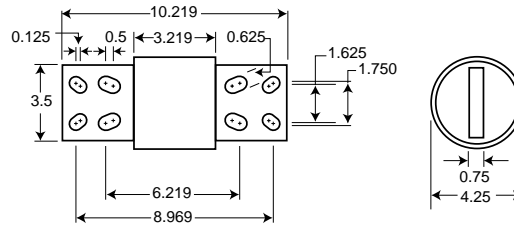


Fig. 2: 1400-1600 Amp Range



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

The only controlled copy of this BIF document is the electronic read-only version located on the Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.