# North American — FWH 500V: 35-1600A

#### **FWH**

#### **Specifications**

**Description:** North American style

stud-mount fuses.

**Dimensions:** See Dimensions

illustration. Ratings:

Volts: - 500Vac Amps: - 35-1600A IR: - 200kA Sym. - 50kA @ 500Vdc

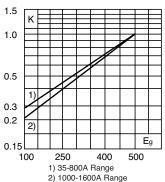
Agency Information: CE, UL Recognition & CSA Component Acceptance on 35-800A only (50kA IR@500Vdc). UL Recognition on 35-1200A only, CSA

Component Acceptance: 35-1600A.

#### **Electrical Characteristics**

#### Total Clearing I2t

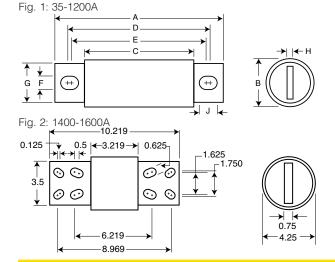
The total clearing I2t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I2t is found by multiplying by correction factor, K, given as a function of 0.2 applied working voltage, Eq, (rms).



### **Dimensions (in)**

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

1mm = 0.0394" / 1" = 25.4mm

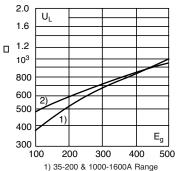


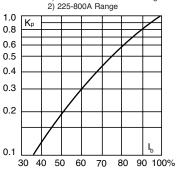
#### **Arc Voltage**

This curve gives the peak arc voltage, UI, which may appear across the fuse during its operation as a function of the applied working voltage, Eq, (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>D</sub>, is given as a function of the RMS load current, Ib, in % of the rated current.





#### **Catalog Numbers**

Catalog	Electrical Characteristics									
	Rated									
Catalog	Current	111	(A <sup>2</sup> Sec) Clearing	Watts						
Numbers	RMS-Amps	Dro oro	at 500V							
FWH-35B	35	Pre-arc 34	150	Loss 8						
FWH-40B	40	76	320	7.5						
FWH-45B	40 45	105	450	7.5						
-				7.5 7.5						
FWH-50B	50	135	670							
FWH-60B	60	210	900	9.9						
FWH-70B	70	210	900	10.6						
FWH-80B	80	305	1400	12.7						
FWH-90B	90	360	1600	15						
FWH-100B	100	475	2000	17						
FWH-125B	125	800	3500	25						
FWH-150B	150	1100	4600	30						
FWH-175B	175	1450	6200	35						
FWH-200B	200	1900	8500	40						
FWH-225A	225	4600	23300	39						
FWH-250A	250	6300	32200	41						
FWH-275A	275	7900	40300	46						
FWH-300A	300	9800	49800	51						
FWH-325A	325	13700	63800	53						
FWH-350A	350	14500	72900	58						
FWH-400A	400	19200	96700	65						
FWH-450A	450	24700	127000	74						
FWH-500A	500	29200	149000	84						
FWH-600A	600	41300	206000	108						
FWH-700A	700	55000	298000	120						
FWH-800A	800	76200	409000	129						
FWH-1000A	1000	92000	450000	145						
FWH-1200A	1200	122000	600000	180						
FWH-1400A	1400	200000	1000000	210						
FWH-1600A	1600	290000	1400000	230						

 Watts loss provided at rated current. • See accessories on page 106.

#### **Features and Benefits**

- Excellent dc performance
- · Low arc voltage and low energy let-through (I2t)
- · Low watts loss
- Superior cycling capability

#### **Typical Applications**

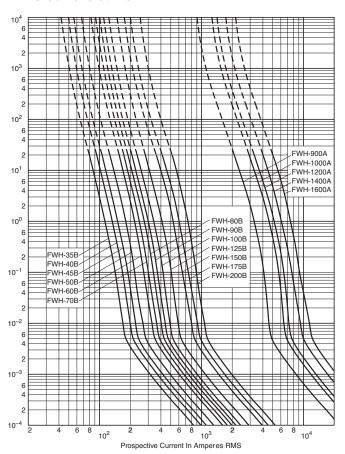
- DC common bus
- · DC drives
- · Power converters/rectifiers
- · Reduced voltage starters



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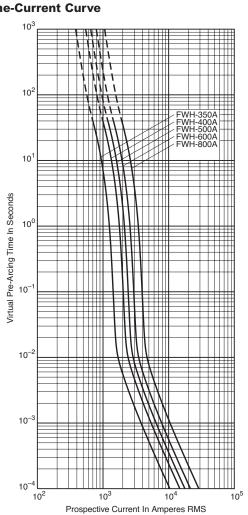
## FWH 35-200A(B) & 900-1600A(A): 500V

#### **Time-Current Curve**

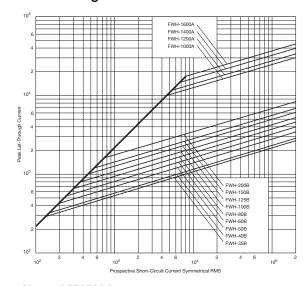


### **Time-Current Curve**

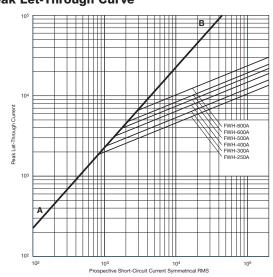
FWH 225-800A: 500V



#### **Peak Let-Through Curve**



### **Peak Let-Through Curve**



Data Sheet: 360 Data Sheet: 35785304

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KAW-3 2D16 LKN-125B 16D27SB 16FC 170M1564D 170M2616 170M2668 170M4161 170M4241 170M4699 ESD63 ABS-30 ABS-8

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