

500 V a.c. / V d.c. (UL) - 35 A to 1600 A - FWH

Description

North American style bolted tags high speed fuse links, for the protection of DC common bus, power converters/rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 500 V a.c. (UL)
 - 500 V d.c. (35 A to 800 A only)
- Rated current: 35 A to 1600 A
- Breaking capacity:
 - 200 kA RMS Sym.
 - 50 kA at 500 V d.c.

Standards / Agency information

CE, UL Recognition JFHR2.E91958 FWH-_B (35 A to 200 A), JFHR2.E56412 FWH-_A (225 A to 800 A), CSA Component Acceptance Class 1422-30, File 53787 (35 A to 1600 A)



Catalogue numbers

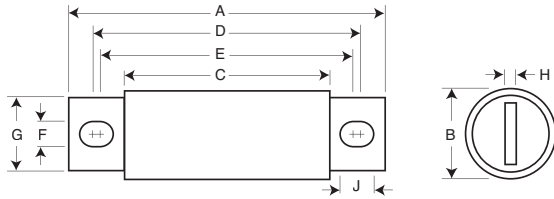
Rated voltage	Rated current (Amps)	I ² t (A ² Sec)			Watts loss (W)	Catalogue numbers
		Pre-arcing	Clearing at 500 V a.c.			
500 V a.c./V d.c. (UL)	35	34	150	8		FWH-35B
500 V a.c./V d.c. (UL)	40	76	320	7.5		FWH-40B
500 V a.c./V d.c. (UL)	45	105	450	7.5		FWH-45B
500 V a.c./V d.c. (UL)	50	135	670	7.5		FWH-50B
500 V a.c./V d.c. (UL)	60	210	900	9.9		FWH-60B
500 V a.c./V d.c. (UL)	70	210	900	10.6		FWH-70B
500 V a.c./V d.c. (UL)	80	305	1400	12.7		FWH-80B
500 V a.c./V d.c. (UL)	90	360	1600	15		FWH-90B
500 V a.c./V d.c. (UL)	100	475	2000	17		FWH-100B
500 V a.c./V d.c. (UL)	125	800	3500	25		FWH-125B
500 V a.c./V d.c. (UL)	150	1100	4600	30		FWH-150B
500 V a.c./V d.c. (UL)	175	1450	6200	35		FWH-175B
500 V a.c./V d.c. (UL)	200	1900	8500	40		FWH-200B
500 V a.c./V d.c. (UL)	225	4600	23,300	39		FWH-225A
500 V a.c./V d.c. (UL)	250	6300	32,200	41		FWH-250A
500 V a.c./V d.c. (UL)	275	7900	40,300	46		FWH-275A
500 V a.c./V d.c. (UL)	300	9800	49,800	51		FWH-300A
500 V a.c./V d.c. (UL)	325	13,700	63,800	53		FWH-325A
500 V a.c./V d.c. (UL)	350	14,500	72,900	58		FWH-350A
500 V a.c./V d.c. (UL)	400	19,200	96,700	65		FWH-400A
500 V a.c./V d.c. (UL)	450	24,700	127,000	74		FWH-450A
500 V a.c./V d.c. (UL)	500	29,200	149,000	84		FWH-500A
500 V a.c./V d.c. (UL)	600	41,300	206,000	108		FWH-600A
500 V a.c./V d.c. (UL)	700	55,000	298,000	120		FWH-700A
500 V a.c./V d.c. (UL)	800	76,200	409,000	129		FWH-800A
500 V a.c./V d.c. (UL)	900	74,000	363,000	132		FWH-900A
500 V a.c. (UL)	1000	92,000	530,000	145		FWH-1000B
500 V a.c. (UL)	1200	122,000	700,000	180		FWH-1200B
500 V a.c. (UL)	1400	200,000	1,000,000	210		FWH-1400A
500 V a.c. (UL)	1600	290,000	1,400,000	230		FWH-1600A

Data sheets: [720007](#), 360 (350-800 A), 5785304 (35-200 A, 1000-1600 A)

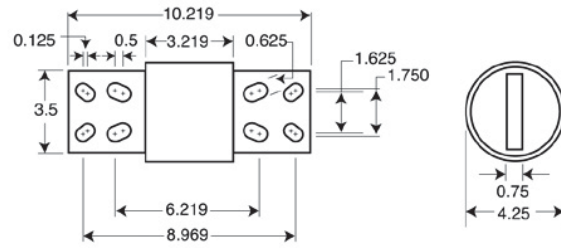
North American fuse links

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Dimensions (in) - 35 A to 1200 A



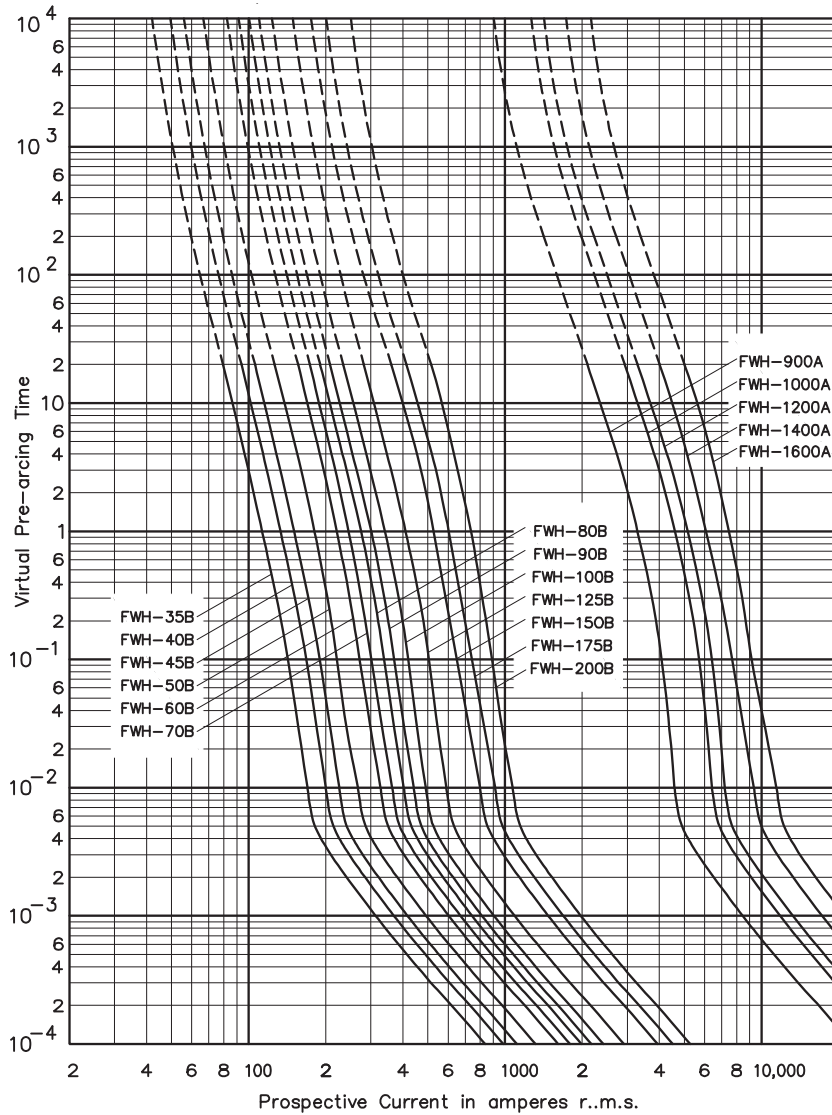
Dimensions (in) - 1400 A and 1600 A



Amp range	A	B	C	D	E	F	G	H	J
35-60	3.19	0.81	1.59	2.54	2.19	0.34	0.72	0.13	0.52
70-100	3.62	0.95	1.74	2.85	2.81	0.35	0.75	0.13	0.38
125-200	3.62	1.16	1.84	2.89	2.77	0.34	1	0.19	0.41
225-400	4.34	1.5	2.09	3.44	2.75	0.41	1	0.25	0.75
450-600	4.34	2	2.09	3.53	2.78	0.41	1.5	0.25	0.78
700-800	6.34	2.5	2.09	4.97	3.44	0.53	2	0.38	1.30
1000-1200	6.97	3	3.22	5.47	4.48	0.62	2.38	0.44	1.12

1" = 25.4mm

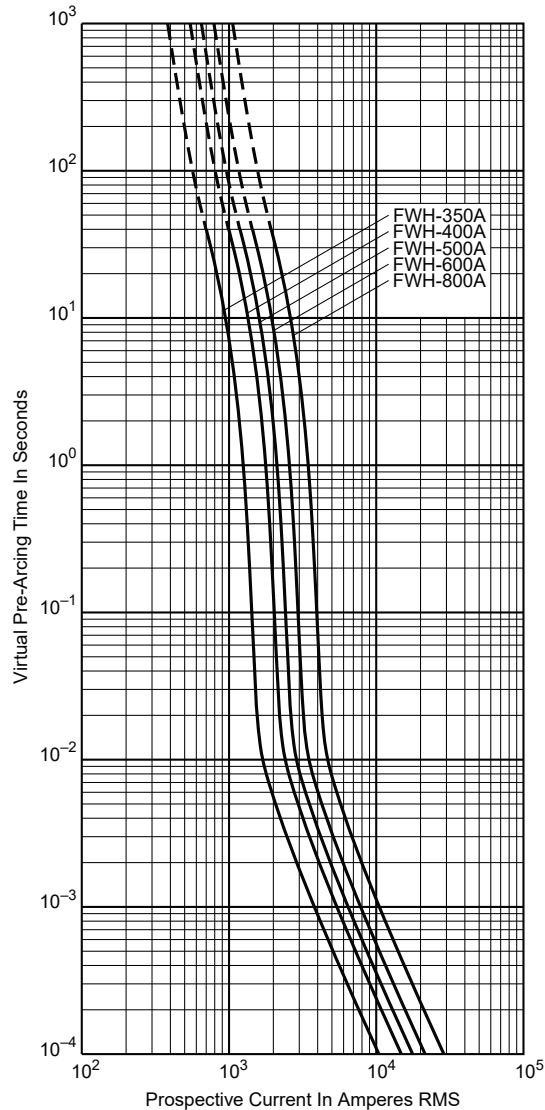
Time-current curve - 35 A to 200 A and 900 A to 1600 A



Data sheets: [720007](#), 360 (350-800 A), 5785304 (35-200 A, 1000-1600 A)

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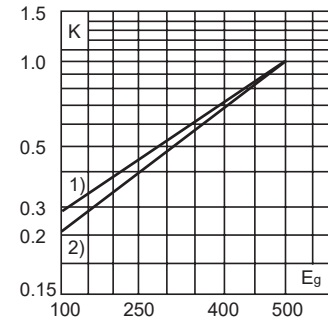
Time-current curve - 350 A to 800 A



Contact FUSETECH@eaton.com for the time current curves for the following ratings: 225 to 325 A, 450 A and 700 A

Total clearing I²t

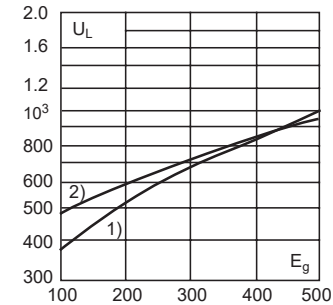
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



- 1) 35 - 800 A
- 2) 1000 - 1600 A

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 percent.



- 1) 35 - 200 A and 1000 - 1600 A
- 2) 225 - 800 A

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts 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 percent of the rated current.

