

Ferrule fuses



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Accessories

Fuse Holders 216

Ferrule Fuse	Ranges		
Volts	Amps	AC	DC
150	5-60	Χ	X
250	1-50	Χ	X
500	0.25-30	X	X
600	6-32	X	X
700 (22 x 58mm)	20-100	Χ	_
700 (14 x 51mm)	1-50	X	X
750	5-60	Χ	X
1000	20-30	X	X (800Vdc)
1250	20-30	X	X (1000Vdc)
1500	8-15	Χ	X (1000Vdc)
2000	2-6	X	X (1000Vdc)

General Information

Cooper Bussmann offers a full line of ferrule style (cylindrical clip-mounted) fuses, designed and tested to meet standards and requirements in various locations around the world. Their unique design and construction provide:

- Superior cycling capability
- · Low energy let-through (I2t)

Ferrule fuses provide an excellent solution for small UPS, small ac drives and other low power applications where space is at a premium.

Voltage Rating

All Cooper Bussmann ferrule fuses — except 690V — have been tested at their rated voltage. The 690V ferrule fuse has been tested to the IEC 60269 standard, which requires clearing at the rated voltage +5%.

Accessories

Ferrule fuses may be mounted in fuseclips, fuse holders, fuse blocks or fused switches. A variety of products are available. Please consult Cooper Bussmann Application Engineering to discuss your requirement.



Ferrule — FWA 150V: 5-60A

FWA 5-30A (10 x 38mm) 35-60A (21 X 51mm)

Specifications

Description: Ferrule style high

speed fuses.

Dimensions: See dimensions

illustration.
Ratings:

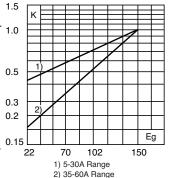
Volts: — 150Vac/dc Amps: — 5-60A IR: — 100kA Sym.

Agency Information: CE, UL Recognition



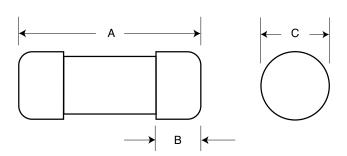
Total Clearing I2t

The total clearing I^2t at rated voltage and at power $_{1.0}$ factor of 15% are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by 0.3 correction factor, K, given 0.2 as a function of applied working voltage, E_g , (rms). $^{0.15}$



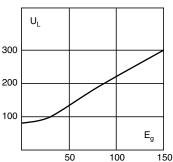
Dimensions - in (mm)

AIIIP	Difficitations	,		
Range	Α	В	С	
5-30	1.5 (38.1)	0.375 (9.5)	0.406 (10.3)	
35-60	2.0 (50.8)	0.625 (15.9)	0.811 (20.6)	



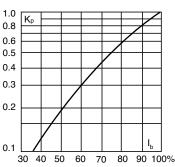
Arc Voltage

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 100 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

		l²t (A² S	ec)	
	Rated			
	Current		Clearing	Watts
ze	RMS-Amps	Pre-arc	at 150V	Loss
	5	1.6	8	1
	10	3.6	16	2.7
38mm	15	14	55	3.3
x 1½")	20	33	130	3.8
	25	58	220	4.9
	30	100	400	4.9
	35	75	800	4.5
, E1mm	40	100	1000	5.1
(13/6" x 2")	45	130	1300	6
	50	170	1600	7.3
	60	250	2400	8.0
	,	Current RMS-Amps 5 10 38mm 15 20 25 30 35 451mm 45 52 x 2") 50	Current RMS-Amps Pre-arc 5 1.6 10 3.6 (38mm 15 14 20 33 25 58 30 100 35 75 40 100 (51mm 45 130 50 170 60 250	Current RMS-Amps Pre-arc at 150V 5 1.6 8 10 3.6 16 (38mm 15 14 55

- Watts loss provided at rated current.
- See accessories on page 216.

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

Typical Applications

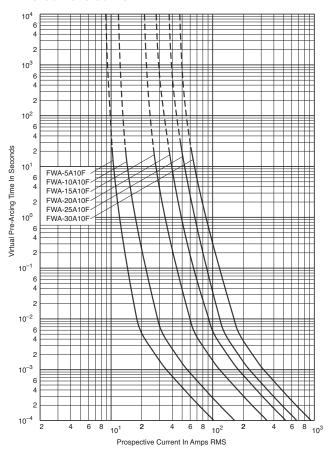
- DC common bus
- DC drives
- · Power converters/rectifiers
- · Reduced voltage starters



Ferrule — FWA 150V: 5-60A

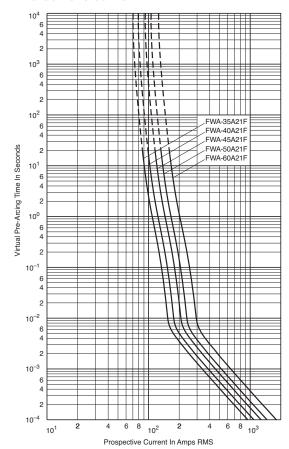
FWA 5-30A: 150V (10 x 38mm)

Time-Current Curve

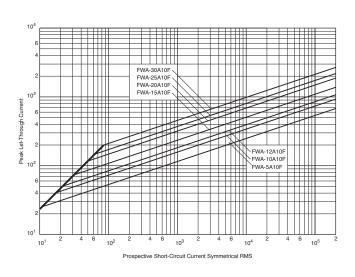


FWA 35-60A: 150V (21 x 51mm)

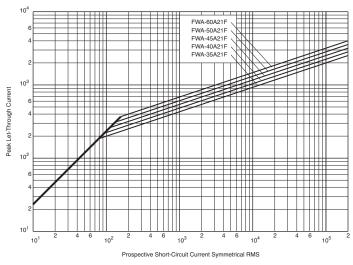
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: 35785317 Data Sheet: 35785305



Ferrule — FWX 250V (UL): 1-50A

FWX (14 x 51mm)

Specifications

Description: Ferrule style high

speed fuses.

Dimensions: See dimensions

illustration. **Ratings**:

Volts: - 250Vac/dc

Amps: - 1-50A

IR: -200kA RMS Sym.

- 50kA @ 250Vdc

Agency Information: CE, UL Recognition 1-50A & CSA

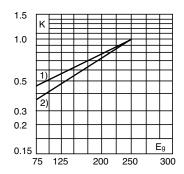
Component Acceptance: 5-30A



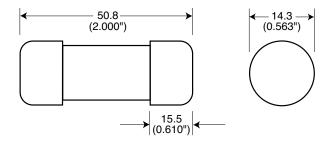
Characteristics

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_Q, (rms).

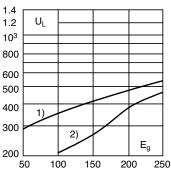


Dimensions - mm (inches)



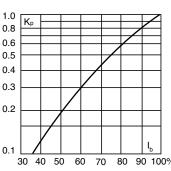
Arc Voltage

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.



Catalog Numbers

		Electrical Characteristics			
		Rated	I²t (A	² Sec)	
Catalog		Current		Clearing	Watts
Number	Size	RMS-Amps	Pre-arc	at 250V	Loss
FWX-1A14F		1	_	_	l –
FWX-2A14F		2	_	_	-
FWX-3A14F		3	_	_	-
FWX-4A14F		4	_	_	-
FWX-5A14F	14 x 51mm	5	1.6	13	1.3
FWX-10A14F	(%6" x 2")	10	3.6	24	3.4
FWX-15A14F		15	14	83	3.8
FWX-20A14F		20	33	200	4.6
FWX-25A14F		25	58	300	5.3
FWX-30A14F		30	100	500	5.9
FWX-50A14F		50	200	1800	5.7

- Watts loss provided at rated current.
- (250Vdc/Interrupting rating 50kA) UL Recognition & CSA Component Acceptance on 5 through 30A only. Consult Cooper Bussmann for additional ratings.
- through 30A only. Consult Cooper Bussmann for additional ratings.

 See accessories on page 216.

Features and Benefits

- · Excellent cycling capability and DC performance
- Low arc voltage and low energy let-through (l²t)
- · Low watts loss in a compact size
- · Used with finger-safe holders/blocks

Typical Applications

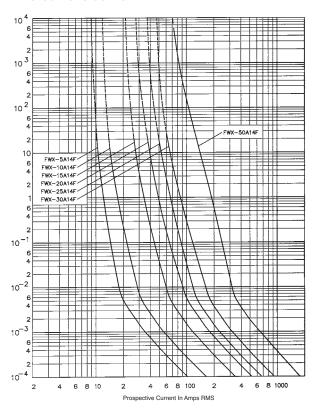
- DC common bus
- · DC drives
- · Power converters/rectifiers
- · Reduced voltage starters



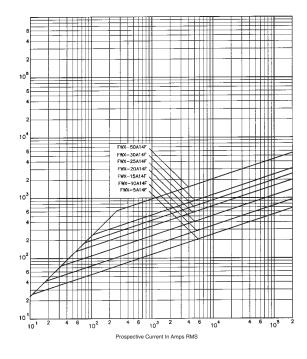
Ferrule — FWX 250V (UL): 1-50A

FWX 1-30A: 250V (14 x 51mm)

Time-Current Curve



Peak Let-Through Curve





Ferrule — FWH 500V: 0.25-30A

FWH (6 x 32mm)

Specifications

Description: Ferrule style high

speed fuses.

Dimensions: See dimensions

illustrations. Ratings:

Volts: - 500Vac

Amps: -0.25-30A

IR: -50kA at $\ge 20\%$ pf (0.25-20A)

- 20kA at ≥ 20% pf (25-30A)

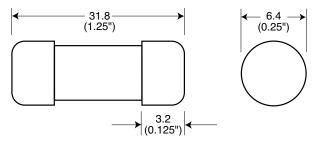
Agency Information: CE, UL Recognition 0.25-30A, CSA

Component Acceptance: 0.25-7A

Opening Times

Amp Ratings	150%	200%	300%	
0.25-7	> 30 min	< 30 min	≤ 10 sec	
10-30	< 30 min	< 30 min	< 10 sec	

Dimensions - mm (inches)



Catalog Numbers

		Electrical Characteristics			
		Rated	I²t	(A ² Sec)	
Catalog		Current		Clearing	Watts
Numbers	Size	RMS-Amps	Pre-arc	at 500V	Loss
FWH250A6F		0.25*	0.01	0.05	2.7
FWH500A6F		0.5*	0.05	0.25	1.2
FWH-001A6F		1*	0.4	2	1.7
FWH-002A6F		2*	1.3	3.5	3.2
FWH-3.15A6F		3.15*	3.1	7.7	2.9
FWH-005A6F		5*	15	40	2.1
FWH-6.30A6F	6 x 32mm	6.3*	36	90	2.3
FWH-007A6F	(¼" x 1¼")	7*	50	125	2.5
FWH-010A6F		10**	9.9	139	2.86
FWH-12.5A6F		12.5**	20	60	3.53
FWH-015A6F		15**	44	146	3.08
FWH-016A6F		16**	48	177	4.48
FWH-020A6F		20**	75	259	4.26
FWH-025A6F		25**	126	345	—
FWH-030A6F		30**	145	430	_

*300% minimum opening current at rated voltage.
**200% minimum opening current at rated voltage.

Consult Cooper Bussmann for DC ratings.
See accessories on page 216.

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

Typical Applications

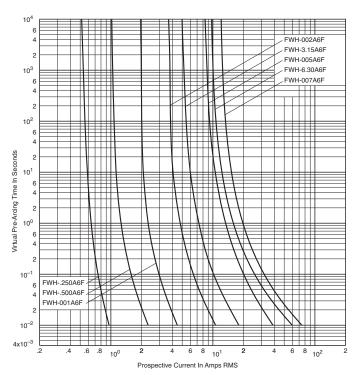
- DC common bus
- · DC drives
- Power converters/rectifiers
- · Reduced voltage starters



Ferrule — FWH 500V: 0.25-30A

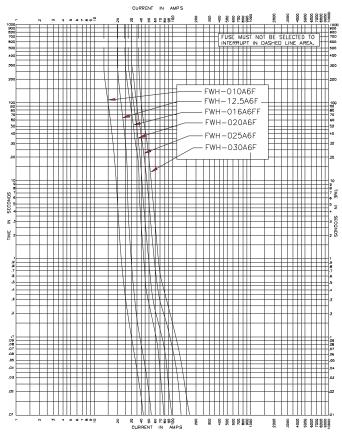
FWH 0.25-7A: 500V (6 x 32mm)

Time-Current Curve



FWH 10-30A: 500V (6 x 32mm)

Time-Current Curve



Data Sheet: 35785256 Data Sheet: 50955



Ferrule — FWH 500V: 1-30A

FWH (14 x 51mm)

Specifications

Description: Ferrule style high

speed fuses.

Dimensions: See dimensions

illustration.
Ratings:

Volts: - 500Vac/dc

Amps: - 1-30A

IR: - 200kA RMS Sym.

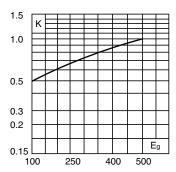
50kA @500Vdc

Agency Information: CE, UL Recognition 1- 30A & CSA Component Acceptance: 5 - 30A.

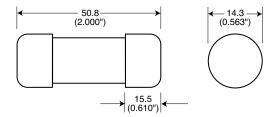


Total Clearing I2t

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



Dimensions - mm (inches)

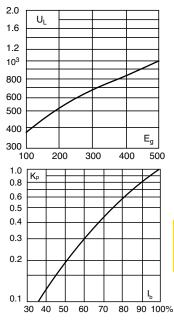


Arc Voltage

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.



Catalog Numbers

		Electrical Characteristics			
		Rated	I²t (A²	Sec)	
Catalog		Current		Clearing	Watts
Numbers	Size	RMS-Amps	Pre-arc	at 500V	Loss
FWH-1A14F		1	_	_	_
FWH-2A14F		2	_	_	_
FWH-3A14F		3	_	_	2.3
FWH-4A14F		4	_	_	_
FWH-5A14F		5	1.6	6.4	1.5
FWH-6A14F	14 x 51mm	6	1.6	6.4	1.5
FWH-10A14F	(%6" x 2")	10	3.6	13	4
FWH-12A14F		12	_	_	_
FWH-15A14F		15	10	40	5.5
FWH-20A14F		20	26	96	6
FWH-25A14F		25	49	191	7
FWH-30A14F		30	58	232	9

Watts loss provided at rated current.

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

Typical Applications

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

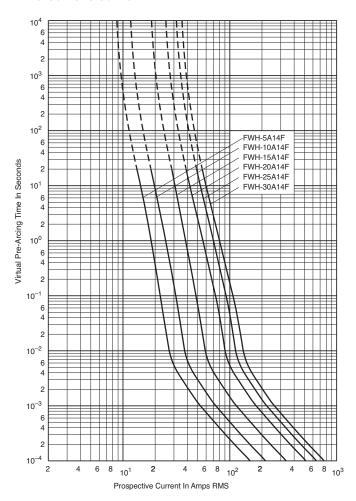
See accessories on page 216.



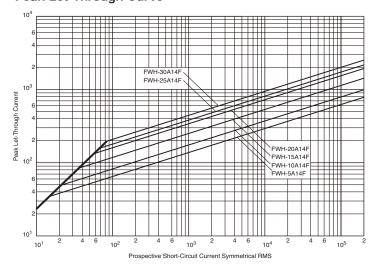
Ferrule — FWH 500V: 1-30A

FWH 1-30A: 500V (14 x 51mm)

Time-Current Curve



Peak Let-Through Curve





Ferrule — FWC 600V: 6-32A

FWC (10 x 38mm)

Specifications

Description: Ferrule style high

speed fuses.

Dimensions: See dimensions

illustration. Ratings:

Volts: - 600Vac/dc

Amps: - 6-32A

IR: - 200kA RMS Sym.

- 50kA @ 700Vdc (6-25A)

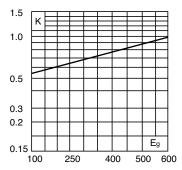
Agency Information: CE, UL Recognition: 6-32A.

UL Recognition: 6-25A

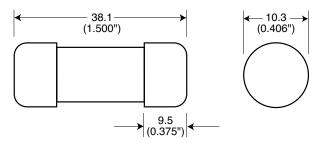
Electrical Characteristics

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_{α} , (rms).



Dimensions - mm (inches)

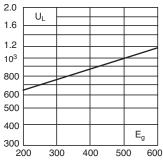


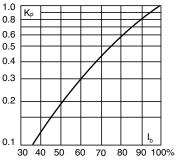
Arc Voltage

This curve gives the peak arc voltage, U_I, 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_p, is given as a function of the RMS load current, Ib, in % of the rated current.





Catalog Numbers

		Electrical Characteristics			
		Rated	I²t (A	A ² Sec)	
Catalog		Current		Clearing	Watts
Numbers	Size	RMS-Amps	Pre-arc	at 600V	Loss
FWC-6A10F		6	4	30	1.5
FWC-8A10F		8	6	50	2.0
FWC-10A10F		10	9	70	2.5
FWC-12A10F	10 x 38mm	12	15	120	3.0
FWC-16A10F	(13/32" x 11/2")	16	25	150	3.5
FWC-20A10F		20	34	260	4.8
FWC-25A10F		25	60	390	6.0
FWC-30A10F		30	95	600	7.5
FWC-32A10F		32	95	600	7.5
FWC-8A10F FWC-10A10F FWC-12A10F FWC-16A10F FWC-20A10F FWC-25A10F FWC-30A10F	(13/s2" X 11/2")	10 12 16 20 25 30 32	9 15 25 34 60 95	50 70 120 150 260 390 600	2.0 2.5 3.0 3.5 4.8 6.0 7.5

- · Watts loss provided at rated current.
- See accessories on page 216.

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

Typical Applications

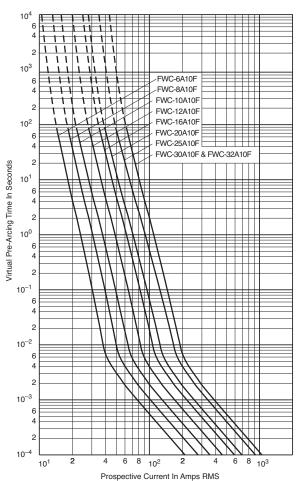
- DC common bus
- · DC drives
- Power converters/rectifiers
- · Reduced voltage starters



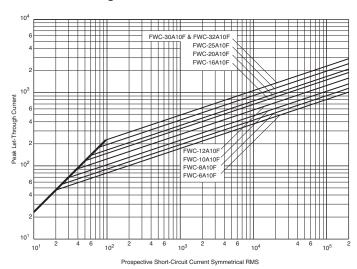
Ferrule — FWC 600V: 6-32A

FWC 6-32A: 600V (10 x 38mm)

Time-Current Curve



Peak Let-Through Curve





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

FWP with

striker option.

FWP (14 x 51mm)

Specifications

Description: Ferrule style high speed fuses with and without indicating striker.

Dimensions: See dimensions illustrations.

Ratings:

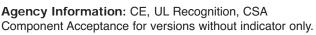
Volts: - 690Vac (IEC)

- 700Vac (UL)
- 800Vdc (5-50A)



IR: -200 kA RMS Sym.

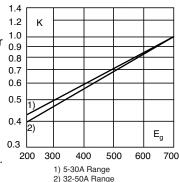
- 50kA @800Vdc



Electrical Characteristics

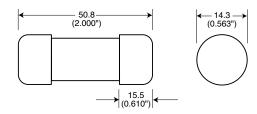
Total Clearing I2t

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_Q, (rms).

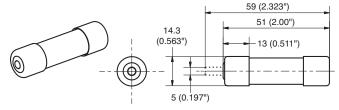


Dimensions - mm (inches)

Without Striker



With Striker

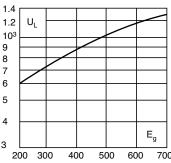


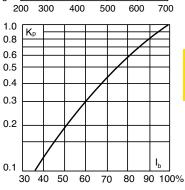
Arc Voltage

This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of 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.





Catalog Numbers

		Electrical Characteristics				
			Rated	I ² t (A ² Sec)		
Catalog		Current	Minimum	Clearing At	Watts	
Numbers	Size	RMS-Amps	Melting	Rated Voltage	Loss	
Without Striker						
FWP-1A14Fa		1	_	_	_	
FWP-2A14Fa		2	_	_	_	
FWP-2.5A14Fa		2.5	_	_	_	
FWP-3A14Fa		3	_	_	_	
FWP-4A14Fa		4	_	_	_	
FWP-5A14Fa	14 x 51mm	5	1.6	11.0	1.5	
FWP-10A14Fa	(%6" x 2")	10	3.6	38.5	4	
FWP-15A14Fa		15	8.6	70	5.5	
FWP-20A14Fa		20	26.0	230	6	
FWP-25A14Fa		25	46.5	375	7	
FWP-30A14Fa		30	58	485	9	
FWP-32A14Fa		32	68	600	7.6	
FWP-40A14Fa		40	84	750	8	
FWP-50A14Fa		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	(%6" 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	

- · Watts loss provided at rated current.
- · See accessories on page 216.

Features and Benefits

- · Excellent cycling capability and DC performance
- · Low arc voltage and low energy let-through (12t)
- · Low watts loss in a compact size
- Used with finger-safe holders/blocks

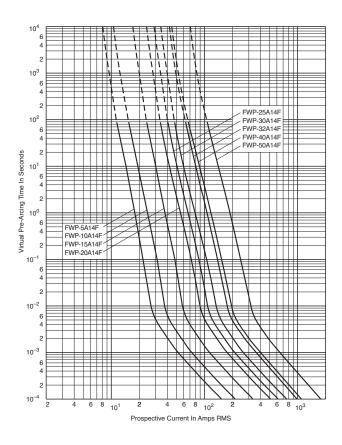


Ferrule — FWP 690V/700V (IEC/UL): 1-50A, Striker Optional

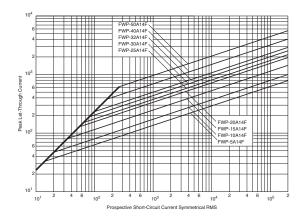
Without Striker

FWP 5-50A: 660V/700V (14x 51mm)

Time-Current Curve



Peak Let-Through Curve





Ferrule — FWP 690V/700V (IEC/UL): 20-100A, Striker Optional

FWP (22 x 58mm)

Specifications

Description: Ferrule style high speed fuses with and without indicating striker.

Dimensions: See dimensions illustration.

Ratings:

Volts: - 690Vac (IEC)

- 700Vac (UL)

Amps: - 20-100A

IR: -200 kA RMS Sym.

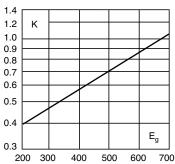
- 50kA @ 500Vdc

Agency Information: CE, UL Recognition

Electrical Characteristics

Total Clearing I2t

The total clearing l^2t at rated voltage and at power 1.2 factor of 15% are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g , (rms). 0.3



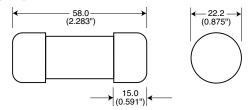
FWP with

striker

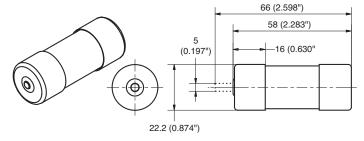
option.

Dimensions - mm (inches)

Without Striker



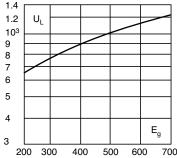
With Striker



Data Sheet: 720026

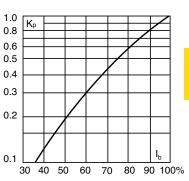
Arc Voltage

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 0.8 characteristics. The curve 0.6 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

		Electrical Characteristics				
		Rated	2	I ² t (A ² Sec)		
Catalog		Current	Minimum	Clearing At	Watts	
Numbers	Size	RMS-Amps	Melting	Rated Voltage	Loss	
Without Striker						
FWP-20A22Fa		20	19.0	260	5	
FWP-25A22Fa		25	34.0	410	6	
FWP-32A22Fa	22 x 58mm	32	53.5	605	8	
FWP-40A22Fa	(%" x 2%2")	40	68	750	9	
FWP-50A22Fa		50	135	1600	9.5	
FWP-63A22Fa		63	280	3080	11	
FWP-80A22Fa		80	600	6600	13.5	
FWP-100A22Fa		100*	1100	12500	16	
With Striker						
FWP-20A22FI		20	19.0	260	5	
FWP-25A22FI		25	34.0	410	6	
FWP-32A22FI	22 x 58mm	32	53.5	605	8	
FWP-40A22FI	(%" x 2½")	40	68	750	9	
FWP-50A22FI		50	135	1600	9.5	
FWP-63A22FI		63	280	3080	11	
FWP-80A22FI		80	600	6600	13.5	
FWP-100A22FI		100*	1100	12500	16	
*IEC/UL Voltage rating 690/700						

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

Typical Applications

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

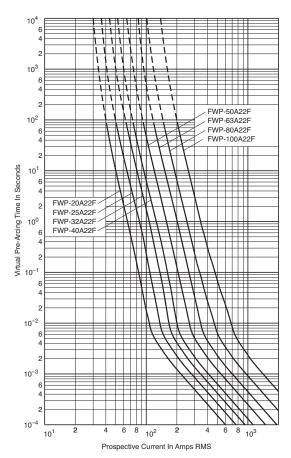


Ferrule — FWP 690V/700V (IEC/UL): 20-100A, Striker Optional

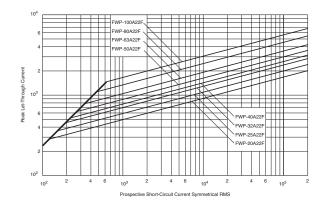
Without Striker

FWP 20-100A: 660V/700V (22 x 58mm)

Time-Current Curve



Peak Let-Through Curve





Ferrule — FWK 750V: 5-60A

FWK 5-30A (20 x 127mm 35-60A (25 x 146mm)

Specifications

Description: Ferrule style high speed fuses. **Dimensions:** See Dimensions illustrations.

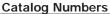
Ratings:

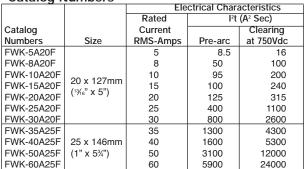
Volts: - 750Vac

- 750Vdc (Time constant = 10-15mS)

Amps: - 5-60A

IR: — 45kA RMS Sym.Agency Information: CE





Recommended fuseholders for 20x127, CH127-1, -2, -3 Recommended fuseclips for 20x127, 1A1837 Recommended fuseclips for 25x146, A3354705

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

Typical Applications

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

Dimensions - mm (inches)

Fig. 1: 5-30A

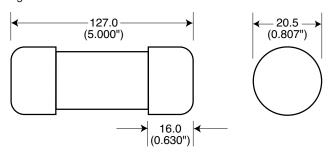
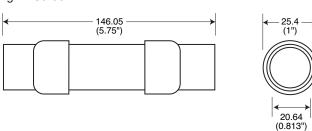


Fig. 2: 35-60A

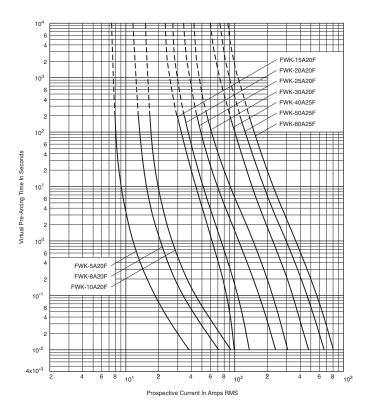




Ferrule — FWK 750V: 5-60A

FWK 750V: 5-30A (20 x 127mm) 35-60A (25 x 146mm)

Time-Current Curve





Ferrule — FWJ 1000V: 20-30A

FWJ (14 x 67mm)

Specifications

Description: Ferrule style high

speed fuses.

Dimensions: See dimensions

illustration. **Ratings**:

Volts: - 1000Vac/800Vdc

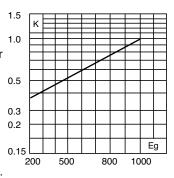
Amps: - 20-30A

IR: — 25kA RMS Sym. — 20kA @ 800Vdc

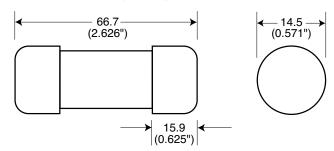
Agency Information: CE, UL Recognized

Electrical Characteristics

Total Clearing I²t 1.5 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_Q, (rms).



Dimensions - mm (inches)

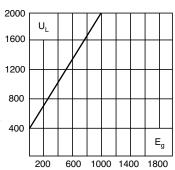


Fuseclips:

Catalog Number: 5591 (see data sheet 2132)

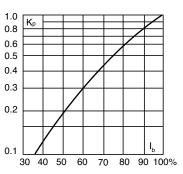
Arc Voltage

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, Kp, is given as a function of the RMS load current, I_b, in % of the rated current.



Catalog Numbers

		Electrical Characteristics				
		Rated	l²t (I²t (A² Sec)		
Catalog		Current		Clearing	Watts	
Numbers	Size	RMS-Amps	Pre-arc	at 1000V	Loss	
FWJ-20A14F	14 x 67mm	20	25	220	9	
FWJ-25A14F	(%6" x 25%")	25	33	350	11	
FWJ-30A14F		30	52	450	14	

<sup>Watts loss provided at rated current.
See accessories on page 216.</sup>

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

Typical Applications

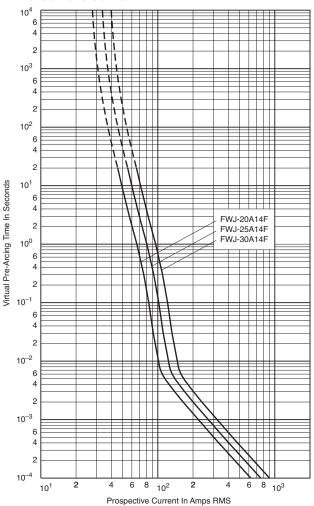
- DC common bus
- DC drives
- · Power converters/rectifiers
- · Reduced voltage starters



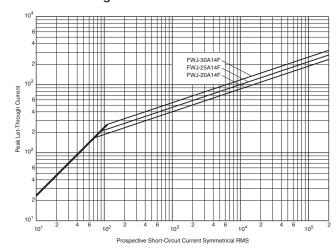
Ferrule — FWJ 1000V: 20-30A

FWJ 20-30A: 1000V (14 x 67mm)

Time-Current Curve



Peak Let-Through Curve





Ferrule — FWS/FWL 1000Vdc: 2-30A

FWS 2-15A (20 x 127mm) FWL 20-30A (20 x 127mm)

Specifications

Description: Ferrule style full range

fuses.

Dimensions: See dimensions

illustrations.

Ratings:

Volts: - 1200Vac (FWL 20-30A)

- 1400Vac (FWS 8-15A)

- 2100Vac (FWS 2-6A)

- 1000Vdc (FWL/FWS 2-30)

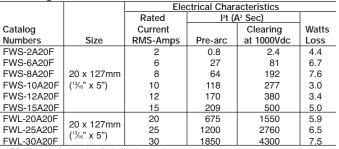
Amps: - 2-30A

IR: - 45kA RMS Sym.

- 30kA @ 1000Vdc

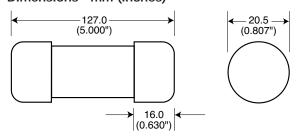
Agency Information: CE, IEC 60077

Catalog Numbers

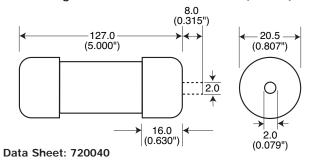


- ADD "I" to catalog number for indicating version.
- Enclosed finger-safe fuse holder CH127
- Open style fuse block 4530-OP
- See accessories on page 216.
 Watts loss provided at rated current.

Dimensions - mm (inches)



Indicating Version - Dimensions - mm (inches)



Features and Benefits

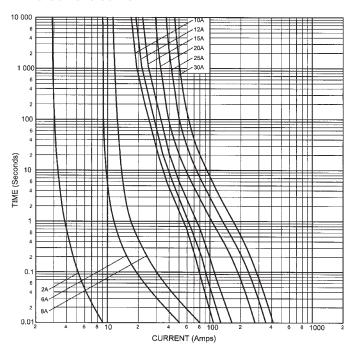
- Excellent cycling capability and DC performance
- Low arc voltage and low energy let-through (I2t)
- · Low watts loss in a compact size
- · Used with finger-safe holders/blocks

Typical Applications

- DC common bus
- · DC drives
- Power converters/rectifiers
- · Reduced voltage starters
- · Traction aux circuits
- · Capacitor protection

FWL/FWS 2-30A: 1000Vdc 2-30A (20 x 127mm)

Time-Current Curve





Ferrule Fuse Accessories

Fuse Holders

Specifications

Catalog Symbol: CH Series Description: DIN rail mount

fuse holders

Agency Information:

cULus/cURus/CE

North American 10 x 38 Class CC: Listed UL 4248, Guide IZLT, File E14853, Certified CSA Std. C22.2 No. 39, Class 6225 01, File 47235



European: 10 x 38 IEC 269-2-1, 14 x 51 IEC 269-2-1, 22 x 58 IEC 269-2-1

Features and Benefits

- · Finger-safe design No exposed contacts
- DIN rail mount (35mm) Fits standard mounting rails
- Optional open fuse indication lights tells fuse status at a glance
- · Handle/fusepuller easily installs and removes fuses
- · Available in single and multi-pole configurations
- Wire ready lugs and spade terminal connections save installation time
- CE marking
- Available up to 1000Vdc
- · PLC device available for remote monitoring

Typical Applications

 Switchboard panel, control consoles, small motors, transformers, and similar applications

Recommended Cooper Bussmann Fuse Types

Class CC North American Class CC Fuses - LP-CC, FNO-B, KTK-B

10 x 38 North American Midget Fuses - FNQ, KTK, AGU, BAF, BAN, FNM, FWA, FWC, PV & DCM

14 x 51 Fuses - FWX, FWH, FWP & NON

22 x 58 Fuses - FWP

See pages 257 and 258 for CH Series fuse holder information.

Fuse Blocks

Specifications

Catalog Symbol: J70100,

J70032

Description: Fuse blocks for 22 x 58mm & 14 x 51mm

fuses.

Ratings:

Volts: — 700Vac Amps: — 32-100A

Withstand: - 200kA RMS Sym.

Agency Information: CE, UL Recognized, Guide IZLT2,

File E14853

Flammability Rating: UL 94V0

Catalog Numbers

-					
Catalog Numbers	Fuse Size	Amps	Poles	Max Wire Size	Terminations
J70032-2CR	14x51	32	2	#2	Box Lug w/ Retaining Clip
J70032-3CR		32	3	#2	
J70100-1CR	22x58	100	1	#2	
J70100-2CR		100	2	#2	
J70100-3CR		100	3	#2	

Data Sheet: 2053 Data Sheet: 1211

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cooper Bussmann:
CH127-3 CH127-2 CH127-1