



## General information

Eaton offers a full line of Bussmann series 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 ( $I^2t$ )

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 Bussmann series ferrule fuses (except 690 V) have been tested at their rated voltage. The 690 V 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 our application engineers to discuss your requirement.

### Features and benefits

- Excellent cycling capability and DC performance
- Low arc voltage and low energy let-through ( $I^2t$ )
- Low watts loss in a compact size
- Used with finger-safe holders and blocks

### Typical applications

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

## Ferrule fuse contents

### Fuses

Catalog symbol	Size (mm)	Volts	Amp range	Page
FWA-_A10F	10x38	150 AC/DC	5-30	32
FWA-_A21F	21x51	150 AC/DC	35-60	32
FWX-_A14F	14x51	250 AC/DC	1-50	33
FWH-_A6F/FR	6x32	500 AC	0.25-30	34
FWH-_A14F	14x51	500 AC/DC	1-30	35
FWC-_A10F	10x38	600/700 AC, 600/700 DC	1-32	36
FWP-_A14F/Fl	14x51	690/700 AC, 600-700 DC	1-50	37
FWP-_A22F/Fl	22x58	700 AC/DC	20-100	38
FWK-_A20F	20x127	750 DC	5-30	39
FWK-_A25F	25x146	750 DC	35-60	39
FWJ-_A14F	14x67	1000 AC, 800 DC	20-30	40
FWL-_A20F/Fl	20x127	1200 AC, 1000 DC	20-30	41
FWS-_A20F/Fl	20x127	1400/2000 AC, 1000 DC	2-15	42

### Accessories

Description	Fuse size	Page
DIN-Rail/panel mount modular fuse block	22x58	43
	10x38	44
Modular DIN-Rail fuse holders	14x51	45
	22x58	46

### Ferrule fuse ranges

	Volts	Amps	AC	DC
	150	5-60	X	X
	250	1-50	X	X
	500	0.25-30	X	X
	600	6-32	X	X
700 (22x58 mm)		20-100	X	—
700 (14x51 mm)		1-50	X	X
	750	5-60	X	X
	1000	20-30	X	X (800 Vdc)
	1250	20-30	X	X (1000 Vdc)
	1500	8-15	X	X (1000 Vdc)
	2000	2-6	X	X (1000 Vdc)

# Ferrule fuses

## FWP

700 Vac/dc (UL), 22x58 mm, 20 to 100 A

### Description

Ferrule style high speed fuses for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Available with or without striker.

### Specifications

#### Ratings

- Volts: 700 Vac/dc (UL)
- Amps: 20-100 A
- Interrupting rating:
  - 200 kA RMS Sym.
  - 50 kA at 700 Vdc, L/R 5 ms

#### Operating Class: aR

#### Agency information

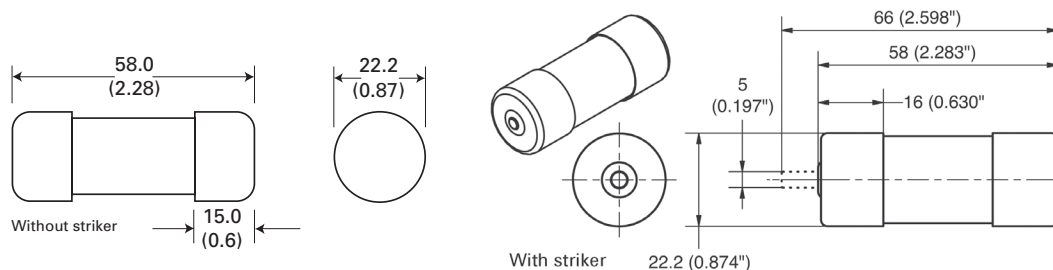
- UL Recognized (without striker only) JFHR2, E91958
- CSA (without striker only) Class 1422-30, 1422-90 (53787)
- CE



Fuse type	Fuse size	Rated voltage	Rated current $I^2t$ (A <sup>2</sup> s)		Watts loss (W)*	Catalog no.	
			(amps)	Pre-arcing Clearing at 700 Vac			
Without striker	22x58 mm (7/8"x2-9/32")	700 Vac/dc (UL)	20	23.0	330	5.0	FWP-20A22F
			25	37.0	530	6.0	FWP-25A22F
			32	55.0	780	8.0	FWP-32A22F
			40	68.0	960	12.0	FWP-40A22F
			50	155.0	2200	12.5	FWP-50A22F
			63	280.0	4000	15.0	FWP-63A22F
			80	550.0	7800	15.0	FWP-80A22F
			100	1100.0	15,600	16.5	FWP-100A22F
With striker	22x58 mm (7/8"x2-9/32")	700 Vac/dc (UL)	20	19.0	260	5.0	FWP-20A22FI
			25	34.0	410	6.0	FWP-25A22FI
			32	53.5	605	8.0	FWP-32A22FI
			40	68.0	750	9.0	FWP-40A22FI
			50	135.0	1600	9.5	FWP-50A22FI
			63	280.0	3080	11.0	FWP-63A22FI
			80	600.0	6600	13.5	FWP-80A22FI
			100	1100.0	12,500	16.0	FWP-100A22FI

\* Watts loss at rated current.

### Dimensions — mm (in)



For details on electrical characteristics, contact Application Engineering and ask for data sheets:720026, 5781723