Effective November 2017 Supersedes August 2016



# FWC 10 x 38 mm Ferrule High speed fuse links



# **Catalogue symbol**

• FWC-(amps)A10F (1 to 32 A)

# **Description**

Ferrule style high speed fuse links.

#### **Technical data**

- · Rated voltage:
  - 700 V a.c./V d.c. (UL 1-4 A)
  - 600 V a.c. (UL 6-32 A)
  - 700 V d.c. (UL 6-25 A)
- Rated current: 1 32 A
- · Breaking capacity:
  - 200 kA RMS Sym. at 600 V a.c. for 6-32 A
  - 200 kA RMS Sym. at 700 V a.c. for 1-4 A
  - 10 kA at 700 V d.c. for 1-25 A
- · Operating class: aR

# **Agency information**

- CE
- UL Recognised JFHR8.E91958 for 6-32 A
- CSA Component acceptance class 1422-30 (53787) for 6-32 A

Size	Catalogue numbers (amps)
10 x 38mm (13/ <sub>32"</sub> x 21/ <sub>2</sub> ")	FWC-1A10F
	FWC-2A10F
	FWC-3A10F
	FWC-4A10F
	FWC-6A10F
	FWC-8A10F
	FWC-10A10F
	FWC-12A10F
	FWC-16A10F
	FWC-20A10F
	FWC-25A10F
	FWC-32A10F

### **Features and benefits**

- Excellent cycling capability and DC performance
- Low arc voltage and low energy let-through (|²t)
- · 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

# **Carton quantity**

• 10 per carton

# **Carton weight**

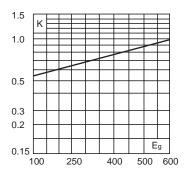
• 0.1 (kg)



#### **Electrical characteristics**

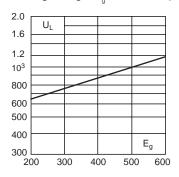
#### Total clearing I2t

The total clearing  $I^2t$  at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing  $I^2t$  is found by multiplying by correction factor, K, given as a function of applied working voltage,  $E_{\alpha}$ , (RMS).



#### 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,  $E_{\sigma}$ , (RMS) at a power factor of 15 percent.

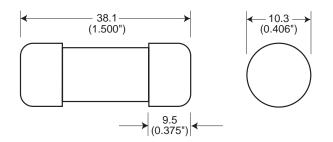


#### **Technical data**

	Rated	Rated current	I²t (A² Sec)		
Catalogue numbers	voltage V a.c. / V d.c.	RMS- Amps	Pre-arc	Clearing at 600 V	Watts loss**
FWC-1A10F	- 700 V a.c./ V d.c. (UL) -	1	0.2	1.2	0.5
FWC-2A10F		2	0.5	3	1.2
FWC-3A10F		3	1.6	11	1.5
FWC-4A10F		4	5.2	32	1.5
FWC-6A10F	- 600 V a.c./ - 700 V d.c. - (UL) - -	6	4	30	1.5
FWC-8A10F		8	6	50	2
FWC-10A10F		10	9	70	2.5
FWC-12A10F		12	15	120	3
FWC-16A10F		16	25	150	3.5
FWC-20A10F		20	34	260	4.8
FWC-25A10F		25	60	390	6
FWC-32A10F	600 V a.c.	32	95	600	7.5

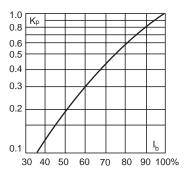
<sup>\*\*</sup>Watts loss provided at rated current

### **Dimensions - mm (in)**

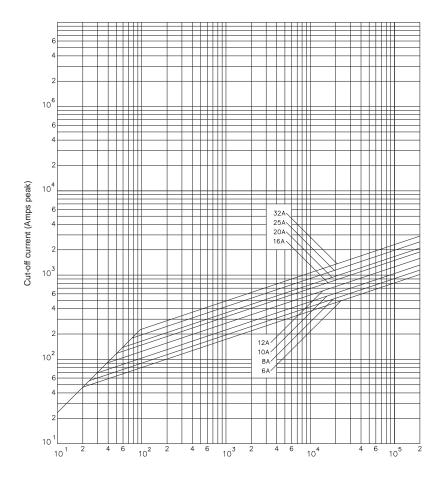


#### **Watts losses**

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 $_{\rm p}$ , is given as a function of the RMS load current, I $_{\rm b}$ , in percent of the rated current.

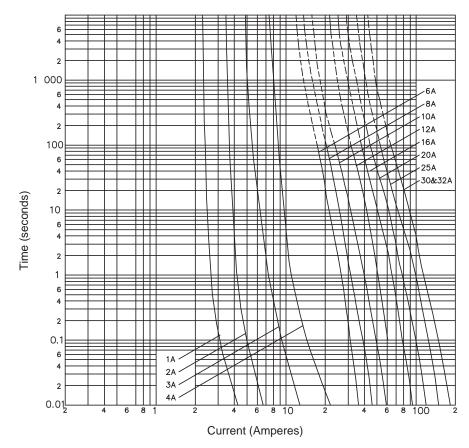


# **Cut-off curves**



Prospective current (SYM. R.M.S. Amps)

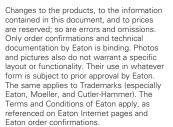
#### Time-current curve - nominal melt



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