CHORDN Semiconductor fuses

European Cylindrical Style AS10 690V: 0.5-32A

Description

Chordn Semiconductor Protection fuses feature the only 690VAC rating in the industry of similar size (10 x 38) fuses protecting semiconductors. AS10 also has the lowest I^2t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment extremely fast response to faults,without the need to carry sustained heavy overloads.

Ratings

Volts:	690VAC/440VDC
Amps:	0.5 - 32 A
I.R. AC:	100 KA/200KA
I.R. DC:	50KA

Speed/Characteristic: aR

Body Style: Cylindrical

Material Body: Ceramic

Contact Materials: Silver plated copper

Environmental RoHS Compliant

Standards

I EC 60269-1
I EC 60269-4

Features and Benefits

Low watts loss in a compact size
Used with finger-safe holders/blocks
Lowest I^2t for greater protection
Excellent cycling ability gives advantage in equipment design

Typical Applications

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

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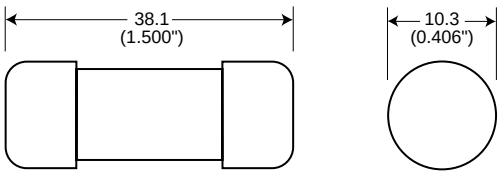
Catalog Numbers

Electrical Characteristics					Ordering Information		Dimensions
Size	Rated Current	Pre-arcing I^2t (A^2s)	Clearing I^2t @ Rated Voltage (A^2s)	Watts Loss	Part number	Carton qty	Figure Number
10 x 38mm (13/32" x 1½")	0.5	0.25	2	0.4W	AS10-0.5A	10	Fig.1
	1	0.32	3	0.5W	AS10-1A		
	1.5	0.5	4	1.0W	AS10-1.5A		
	2	0.6	5.5	1.1W	AS10-2A		
	4	2	8	1.3W	AS10-4A		
	6	4	30	1.5W	AS10-6A		
	8	6	50	2.0W	AS10-8A		
	10	9	70	2.5W	AS10-10A		
	12	15	120	3.0W	AS10-12A		
	16	25	150	3.5W	AS10-16A		
	20	34	260	4.8W	AS10-20A		
	25	60	390	6.0W	AS10-25A		
	32	95	600	7.5W	AS10-32A		

- Interrupting rating 100KA RMS Symmetrical. Please contact us if you need interrupting rating 200KA.
- Watts loss provided at rated current.
- CE Component Acceptance: 0.5 - 32A.

Dimensions



Dimension in mm.
1mm = 0.0394″ 1″ = 25.4mm

Fig.1

Electrical Characteristics

Total Clearing I^2t

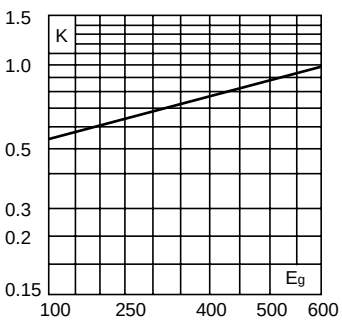
The total clearing I^2t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).

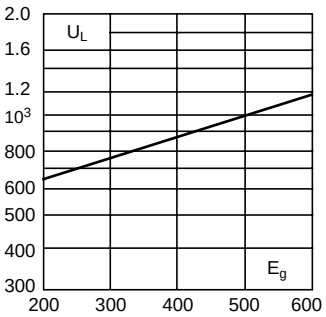
Arc Voltage

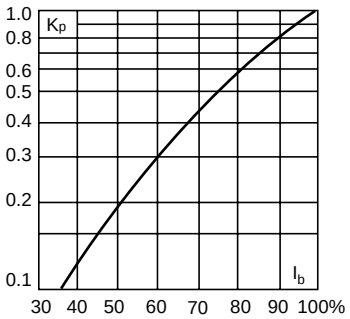
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15%.

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.







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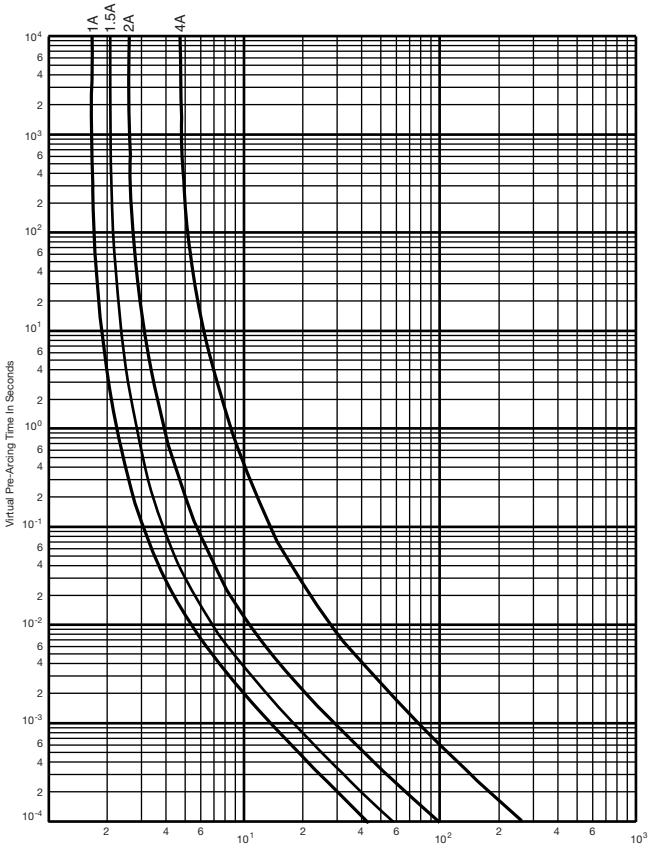
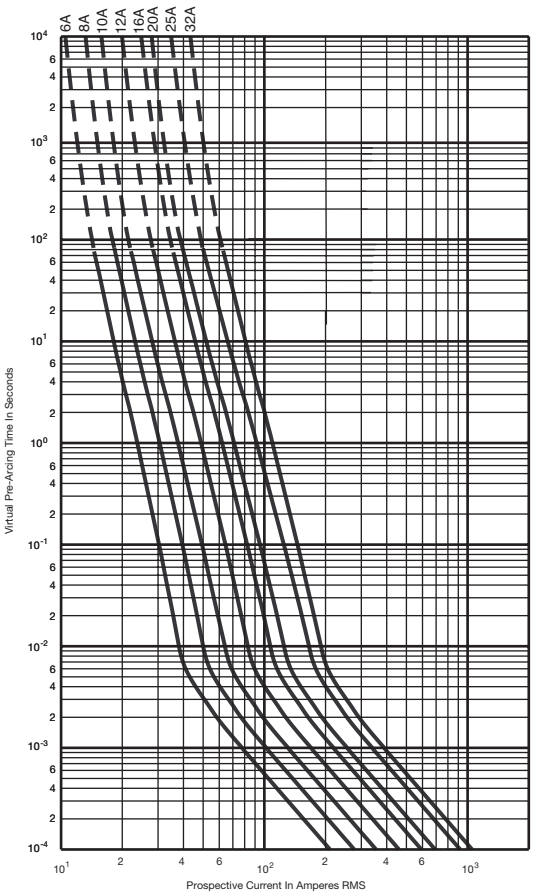
AS10 690V: 1-4A

Time-Current Curve

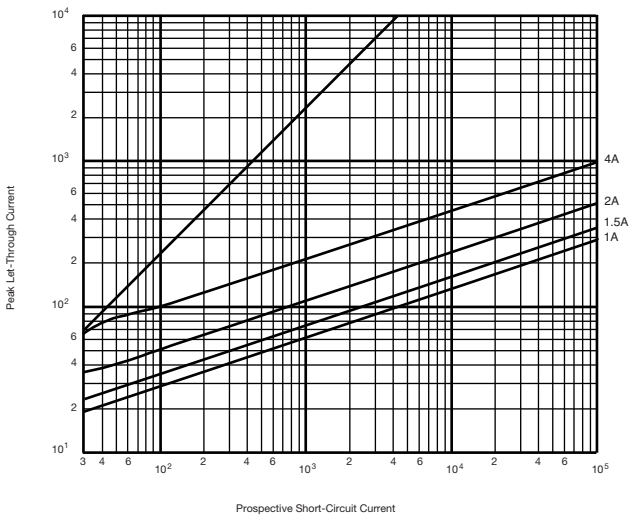


AS10 690V: 6-32A

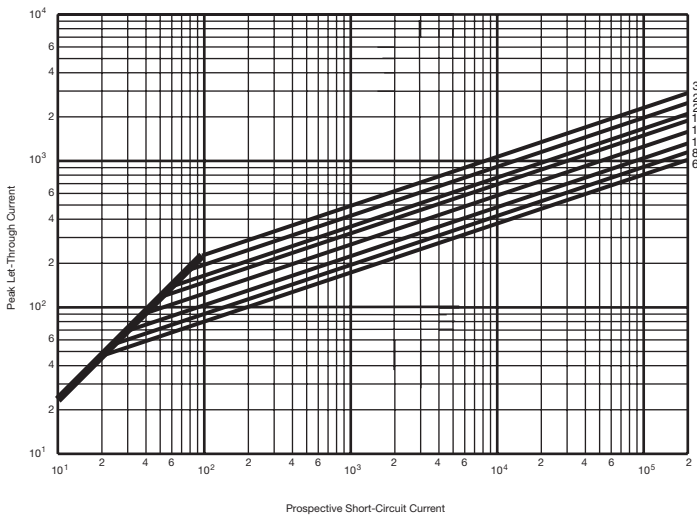
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



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