

European Cylindrical Style AS22 690V: 10-125A



Description

Chordn Semiconductor Protection fuses feature the only 690VAC rating in the industry of similar size (22 x 58) fuses protecting semiconductors. AS22 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: 10 - 125 A

I.R. AC: 100KA/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

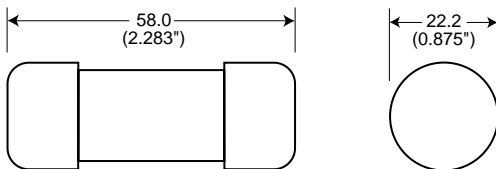
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Catalog Numbers

Electrical Characteristics					Ordering Information		Dimensions
Size	Rated Current	Pre-arcing I ² t (A ² s)	Clearing I ² t @ Rated Voltage (A ² s)	Watts Loss	Part number	Carton qty	Figure Number
22 x 58mm ($\frac{7}{8}$ " x 2 $\frac{1}{2}$ ")	10	---	---	---	AS22-10A	10	Fig.1
	12	---	---	---	AS22-12A		
	16	---	---	---	AS22-16A		
	20	23	260	5.0W	AS22-20A		
	25	37	410	6.0W	AS22-25A		
	32	60	605	8.0W	AS22-32A		
	40	70	750	9.0W	AS22-40A		
	50	140	1600	9.5W	AS22-50A		
	63	280	3080	11W	AS22-63A		
	80	600	6600	13.5W	AS22-80A		
	100	1100	12500	16W	AS22-100A		
	125	2000	21000	20W	AS22-125A		

- Interrupting rating 100KA RMS Symmetrical. Please contact us if you need interrupting rating 200KA.
- Watts loss provided at rated current.
- CE Component Acceptance: 10 - 125A.

Dimensions



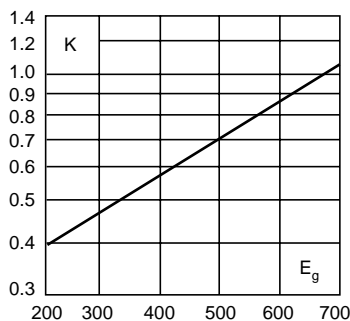
Dimension in mm.
1mm = 0.0394" 1" = 25.4mm

Fig.1

Electrical Characteristics

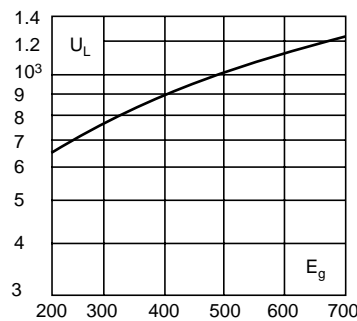
Total Clearing I²t

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_g, (RMS).



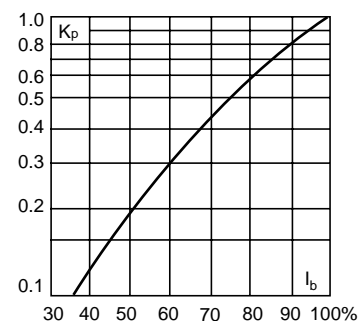
Arc Voltage

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

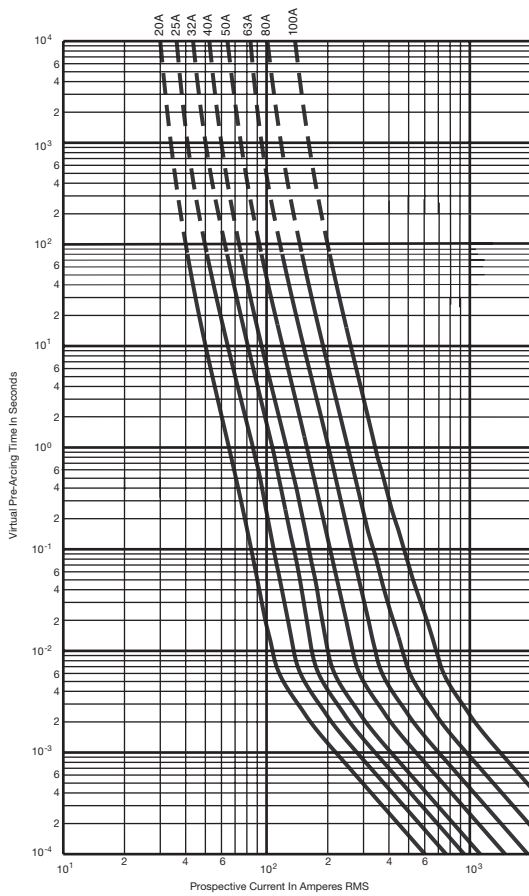
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in % of the rated current.



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Time-Current Curve



Peak Let-Through Curve

