

## European Cylindrical Style AS14 690V: 2-50A



### Description

Chordn Semiconductor Protection fuses feature the only 690VAC rating in the industry of similar size (14 x 51) fuses protecting semiconductors. AS14 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: 2 - 50A  
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

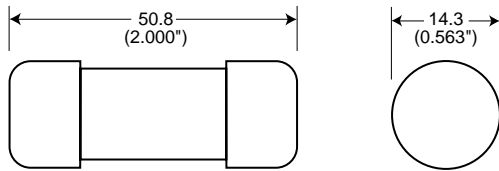
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### Catalog Numbers

Electrical Characteristics					Ordering Information		Dimensions
Size	Rated Current	Pre-arcing I <sup>2</sup> t (A <sup>2</sup> s)	Clearing I <sup>2</sup> t @ Rated Voltage (A <sup>2</sup> s)	Watts Loss	Part number	Carton qty	Figure Number
14 x 51mm (% x 2")	2	---	---	---	AS14-2A	10	Fig.1
	4	---	---	---	AS14-4A		
	6	1.6	11	1.5W	AS14-6A		
	8	2.5	28	3.0W	AS14-8A		
	10	3.6	38.5	4.0W	AS14-10A		
	12	10	50	4.8W	AS14-12A		
	16	26	70	5.5W	AS14-16A		
	20	44	230	6.0W	AS14-20A		
	25	58	375	7.0W	AS14-25A		
	32	68	600	7.6W	AS14-32A		
	40	84	750	8.0W	AS14-40A		
50	200	1800	9.0W	AS14-50A			

- Interrupting rating 100KA RMS Symmetrical. Please contact us if you need interrupting rating 200KA.
- Watts loss provided at rated current.
- CE Component Acceptance: 2 - 50A.

### Dimensions

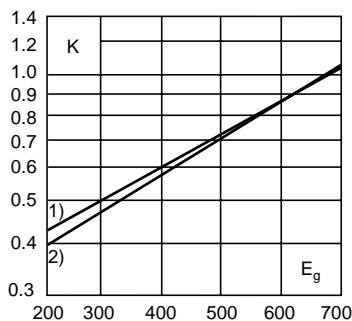


Dimension in mm.  
1mm = 0.0394" 1" = 25.4mm Fig.1

## Electrical Characteristics

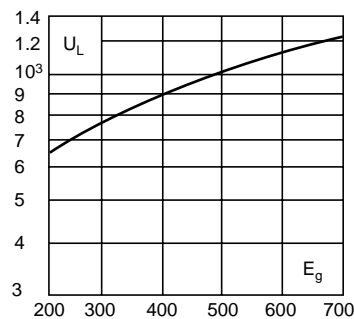
### Total Clearing I<sup>2</sup>t

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



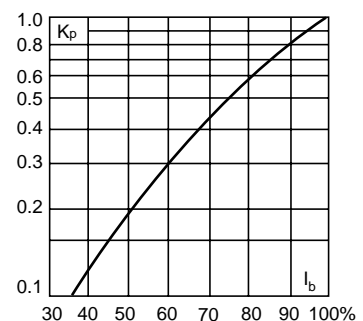
### Arc Voltage

This curve gives the peak arc voltage, U<sub>L</sub>, which may appear across the fuse during its operation as a function of the applied working voltage, E<sub>g</sub>, (RMS) at a power factor of 15%.



### Power Losses

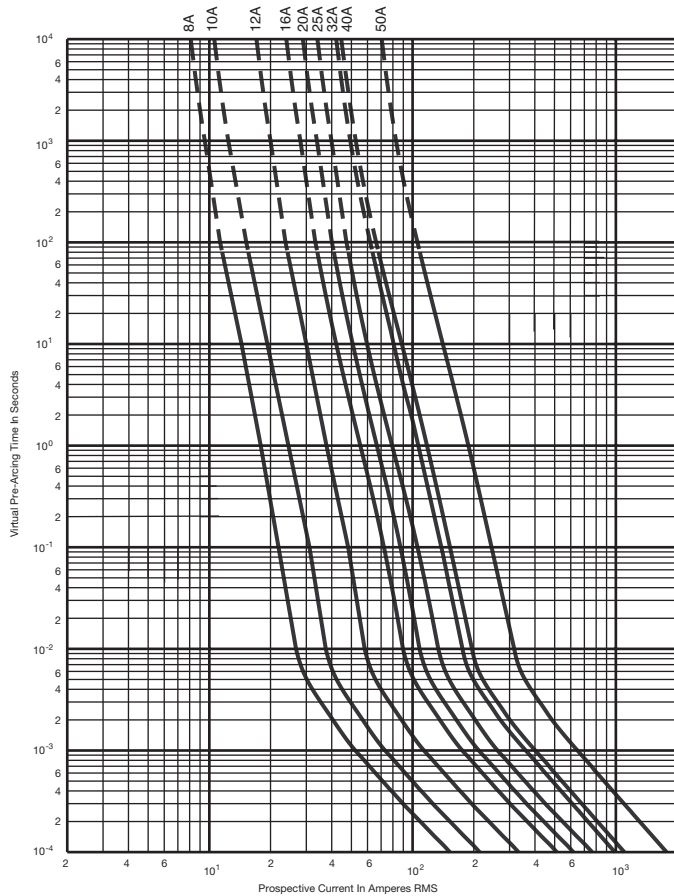
Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K<sub>p</sub>, is given as a function of the RMS load current, I<sub>b</sub>, in % of the rated current.



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Time-Current Curve



Peak Let-Through Curve

