



5822

IGNITRON

5822

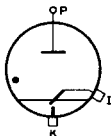
DATA

General:

Cathode, Ignitor Excited.	Mercury-Pool Type
Starting time at required ignitor voltage or current [□]	100 μsec
Anode Voltage Drop:	
At peak anode current of 1500 amperes	25 volts
Cooling:	
Type.	water
Minimum Water Flow:	
At no load.	0.5 gpm
At rated continuous average current	1.5 gpm
Maximum Pressure Drop:	
At 1.5 gpm.	5 lb./sq. in.
Minimum Inlet-Water Temperature	10 °C
Maximum Outlet-Water Temperature.	35 °C
Maximum Water-Temperature Rise.	6 °C
Overall Rigid Length (Approx.).	14-1/2"
Maximum Diameter (including water connections).	7-1/4"
Mounting Position	Vertical, flexible lead up

Terminal Connections:

- P - Anode Terminal (Flexible lead)
- K - Cathode Terminal (Opposite the anode terminal)



- I - Ignitor Terminal (Adjacent to the cathode terminal)

FREQUENCY-CHANGER RESISTANCE-WELDING SERVICE

For input-supply frequency from 50 to 60 cycles per second and minimum output frequency of 5 cycles per second

Maximum Ratings, Absolute Values:

	Rating I	Rating II	
PEAK ANODE VOLTAGE:			
Forward	1200 max.	1500 max.	volts
Inverse	1200 max.	1500 max.	volts
ANODE CURRENT:[○]			
Peak.	1500 max.	1200 max.	amp
Corresponding Average*.	20 max.	16 max.	amp
Average*.	70 max.	56 max.	amp
Corresponding Peak.	420 max.	336 max.	amp
RATIO OF FAULT ANODE CURRENT TO PEAK ANODE CURRENT[●].			
	12.5 max.	12.5 max.	

[○] Ratings are for zero phase-control angle. Straight-line interpolation on log-log paper is permissible between corresponding points.

* Averaged over any 6.25-second maximum interval.

● Duration of fault anode current should be limited to 0.15 second.

□: See next page.

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PEAK IGNITOR VOLTAGE:

Positive [□]	} Equal to anode 200 min. 5 max.	volts
Negative		volts

IGNITOR CURRENT:

Peak [□]	} 100 max. 30 min.	amp
RMS.		10 max.
Average [■]	1 max.	amp

□ Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the indicated starting time (see Cathode).

■ Averaged over any 5-second maximum interval.

Outline Drawing for the 5822 is the same
as shown for Type 5552

RATING CHART

