



5551

5551 IGNITRON SIZE B

General:	<u>DATA</u>
Peak Voltage Drop	12 volts
Cooling:	
Type	Water
Minimum Flow	1 gallon/minute
Maximum Outlet Water Temperature	40°C
Minimum Inlet Water Temperature	10°C
Pressure Drop per tube, at Min. Flow	1.6 lb./sq.in.
Temp. Rise at Minimum Flow (Average current 40 amp/anode) Approx.	2°C
Mounting Position	Vertical, Flexible Lead Up
Max. Rigid Length (Approx.)	13-1/2"
Max. Diameter, including Cooling Connections	5-3/4"

AC WELDER-CONTROL SERVICE*

Ratings are for any voltage from 250 to 600 volts rms
at frequencies from 25 to 60 cycles

Maximum Ratings, Absolute Values:

DEMAND	600 max.	kva
CORRESPONDING AVERAGE ANODE CURRENT.	30.2 max.	amp
AVERAGE ANODE CURRENT.	56 max.	amp
CORRESPONDING DEMAND	200 max.	kva
TIME OF AVERAGING ANODE CURRENT:		
At 500 volts rms	9 max.	sec
At 250 volts rms	18 max.	sec
SURGE ANODE CURRENT.	■ peak	amp
PEAK POSITIVE IGNITOR VOLTAGE §.	900 max. 200 min.	volts
		volts
PEAK NEGATIVE IGNITOR VOLTAGE.	5 max.	volts
PEAK IGNITOR CURRENT §	100 max. 30 min.	amp
		amp
AVERAGE IGNITOR CURRENT*	1 max.	amp
IGNITION TIME §.	100 max.	µsec

CURVES FOR THE 5551 IN THIS CLASS OF SERVICE
ARE SHOWN UNDER TYPE 5550

INTERMITTENT RECTIFIER SERVICE

For frequencies from 25 to 60 cycles

Maximum Ratings, Absolute Values:

PEAK FORWARD ANODE VOLTAGE	500 max.	volts
PEAK INVERSE ANODE VOLTAGE	500 max.	volts
PEAK ANODE CURRENT	700 max.	amp
AVERAGE ANODE CURRENT#	40 max.	amp
SURGE ANODE CURRENT for 0.15 sec. max.	8000 max.	amp

*, ■, §, @, #: See next page.

5551



5551

IGNITRON

PEAK POSITIVE IGNITOR VOLTAGE §	{	900 max. volts
		200 min. volts
PEAK NEGATIVE IGNITOR VOLTAGE.		5 max. volts
PEAK IGNITOR CURRENT §	{	100 max. volts
		30 min. volts
AVERAGE IGNITOR CURRENT.		1 max. amp
IGNITION TIME §		100 max. μ sec

* Averaged over any 5-second interval.

Averaged over any 3-second interval.

■ Must be limited to 280% of maximum rms demand current.

● RMS demand-voltage, -current, and -kva are on the basis of full-cycle conduction (no phase delay) regardless of whether or not phase-control is used. Use the 250-volt rating for voltages below 250 volts.

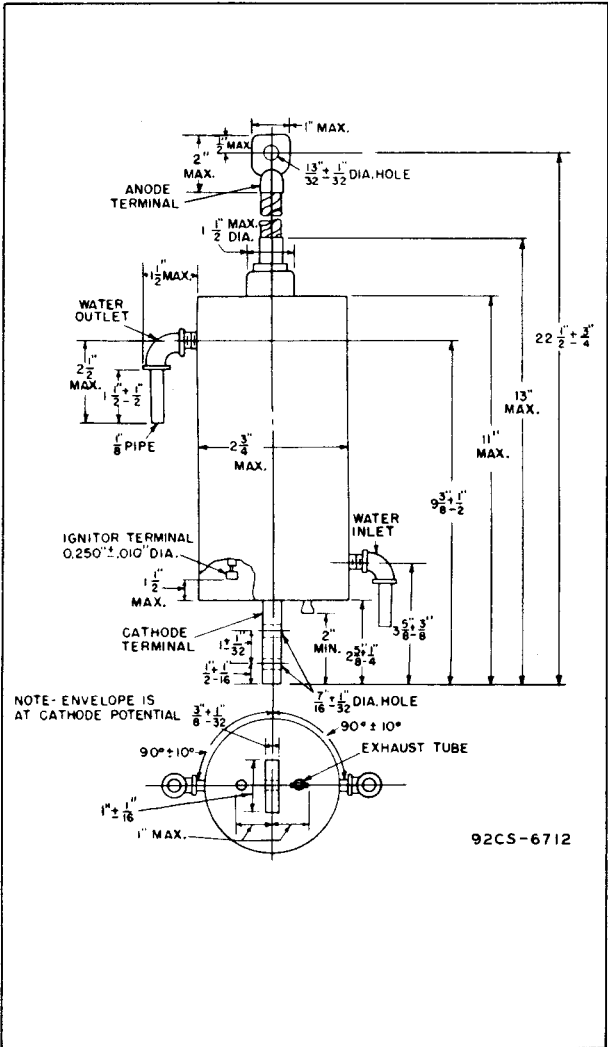
§ Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the rated maximum ignitor ignition time.



5551

IGNITRON

5551



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