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IGNITRON

SIZE B

General:DATA

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.	volts
	{ 200 min.	volts
PEAK NEGATIVE IGNITOR VOLTAGE.	5 max.	volts
PEAK IGNITOR CURRENT §	{ 100 max.	amp
	{ 30 min.	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.

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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.

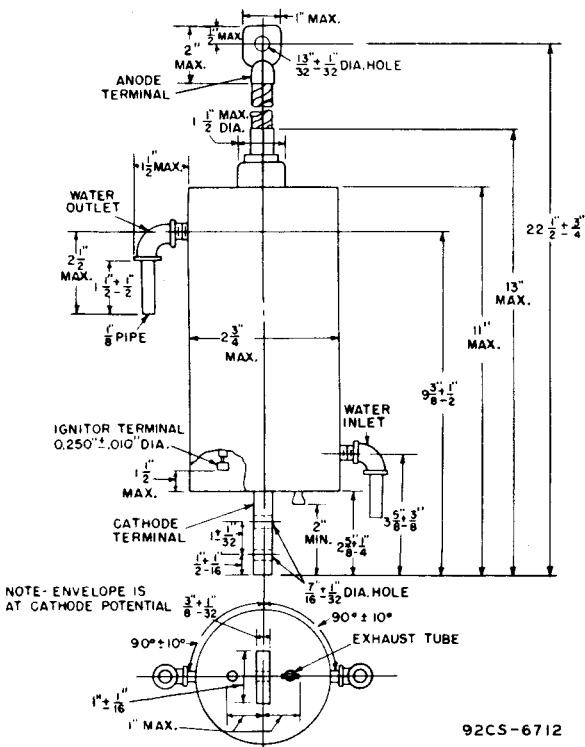
● RMS demand-voltage, -current, and -kva are on the basis of full-cycle conduction (no phase delay) regardless of whether or not phase-control is used. Use the 250-volt rating for voltages below 250 volts.

§ 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.

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92CS-6712