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IGNITRON

SIZE C

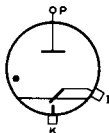
DATA

General:

Peak Voltage Drop	12	volts
Cooling:		
Type	Water	
Minimum Flow	1.5 gal./min.	
Pressure Drop per tube, at Minimum Flow.	4.5 lb./sq.in.	←
Maximum Outlet Water Temperature	40°C	
Minimum Outlet Water Temperature	10°C	
Temp. Rise at Min. Flow (Average Current 100 amp/anode) Approx.	3°C	
Mounting Position.	Vertical, Flexible Lead Up	
Maximum Rigid Length (Approx.)	14-1/2"	
Maximum Diameter, Including Cooling Connections.	7-1/4"	

Terminal Connections:

I - Ignitor
K - Cathode



P - Anode

AC WELDER-CONTROL SERVICE®

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

Maximum Ratings, Absolute Values:

Two Tubes in Inverse Parallel

DEMAND	1200 max.	kva
Average Anode Current at Maximum Demand.	75.6 max.	amp
ANODE CURRENT:		
Average*	140 max.	amp
Demand at Max. Average Anode Current	400 max.	kva
Fault:		←
At 600 volts rms	5600 max.	amp
At 250 volts rms	13450 max.	amp
PEAK IGNITOR VOLTAGE:		
Positive§.	{ 900 max.	volts
Negative	{ 200 min.	volts
Negative	5 max.	volts
IGNITOR CURRENT:		
Peak§.	{ 100 max.	amp
Average**	{ 30 min.	amp
Average**	1 max.	amp
IGNITOR IGNITION TIME§	100 max.	μsec

® 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.

* Averaged over any 5.8-second maximum interval for operation at 600 volts rms and over any 14-second maximum interval at 250 volts rms.

§, **: See next page.

← Indicates a change.

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INTERMITTENT RECTIFIER SERVICE

For frequencies from 25 to 60 cycles per second

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:

Forward	500 max.	volts
Inverse	500 max.	volts

ANODE CURRENT:

Peak	1600 max.	amp
Average [□]	100 max.	amp
Fault, for 0.15 second maximum.	6000 max.	amp

PEAK IGNITOR VOLTAGE:

Positive [§]	{ 900 max.	volts
	{ 200 min.	volts
Negative.	5 max.	volts

IGNITOR CURRENT:

Peak [§]	{ 100 max.	amp
	{ 30 min.	amp
Average ^{**}	1 max.	amp

IGNITOR IGNITION TIME [§]	100 max.	μsec
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§ Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the rated maximum ignition time.

** Averaged over any 5-second maximum interval.

□ Averaged over any 6-second maximum interval.

*Curves for the 5552 in AC Welder-Control Service
are shown under Type 5550*



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