



## ELECTRONIC TUBE REFERENCE

## AJ6346

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## IGNITRONPOWERSWITCH

Water-cooled mercury-pool ignitron designed for industrial AC power and resistance-welding control, providing controlled switching of very large currents.

## GENERAL CHARACTERISTICS

|                     |                        |                      |               |
|---------------------|------------------------|----------------------|---------------|
| BASE DESIGNATION    | —                      | BASE PINS            | —             |
| NOMINAL HEATER      | — / —                  | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect; cold cathode | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes      | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

## SECTION 1 IgnitronPowerSwitch

*No fixed ratings recorded.*

*Mercury-pool ignitron switching section.*

Water-cooled mercury-pool ignitron for industrial AC power and welding control.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1953 AEG

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1953 AEG

## Section 1 · IgnitronPowerSwitch

| OTHER                         |                 |                         |
|-------------------------------|-----------------|-------------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE        |
| Maximum conducting capacity   | 600 kVA         | TwoTubesInverseParallel |
| Maximum peak anode current    | 2800 A          | —                       |
| Maximum average anode current | 56 A            | 200kVA                  |
| Maximum peak anode voltage    | 800 V           | —                       |
| Cooling water flow            | 4 L/min         | FullLoad                |

| CHARACTERISTICS  |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Arc voltage drop | 13 V            | —                |