

ELECTRONIC TUBE REFERENCE

AX255

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

Heavy-duty mercury-vapor thyatron designed for motor control and AC welder control, providing grid-triggered switching of substantial industrial currents.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 16 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM CATHODE CURRENT	12.5 A
Published filament, heating time, tube drop, forward/inverse voltage, current, grid, ionization and deionization data reviewed.	

Heavy-duty mercury-vapor thyatron for motor control and AC welder control.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	ThyatronService
Filament current	16 A	ThyatronService
Filament heating time	300 s	ThyatronService
Tube voltage drop	12 V	ThyatronService
Ionization time	10 us	ThyatronService
Deionization time	1000 us	ThyatronService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak forward voltage	1500 V	ThyatronService
Maximum peak inverse voltage	2500 V	ThyatronService
Maximum peak anode current	80 A	ThyatronService
Maximum average anode current	12.5 A	ThyatronService
Maximum grid voltage	-300 V	ThyatronService



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	5 V	Section1
Heater or filament current	16 A	Section1
Peak forward voltage maximum	1500 V	Thyatron
Peak inverse voltage maximum	2500 V	Thyatron
Peak anode current maximum	80 A	Thyatron
Average anode current maximum	12.5 A	Thyatron
Maximum grid voltage	-300 V	Thyatron
Recommended temperature range	+35 to +75 °C	Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	300 s	Thyatron
Tube voltage drop	12 V	Thyatron
Ionization time	10 µs	Thyatron
Deionization time	1000 µs	Thyatron