



XENON FILLED RECTIFIER

3B22

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Service Type CV3815

American Designation 3B22

INTRODUCTION

The 3B22 is a hot cathode, full wave, Xenon filled Rectifier with maximum ratings of 725V peak inverse voltage and 4.0A peak current.

GENERAL DATA

(See also Preamble to Rectifier Section of this Catalogue)

Electrical

Filament	..	..	..	..	..	..	..	Oxide Coated
Filament Voltage	..	..	..	..	..	..	2.5	V
Filament Current	..	..	..	..	..	..	6.25 A	Approx
Min Filament Heating Time	..	..	..	..	..	20		secs
Ambient Temperature Range	..	..	..	..	..	-55 to +75		°C
Max Peak Inverse Voltage	..	..	..	..	..	725		V
Max Anode Current (per anode):								
Peak	..	..	..	..	..	..	4.0	A
Mean (4.5 secs averaging time)	..	..	..	..	..	..	0.5	A
Under Fault Conditions (0.1 second Max duration)	..	..	..	..	..	..	60	A
Max Power Supply Frequency	..	..	..	..	..	..	250	c/s

Mechanical

Overall Length..	..	..	..	6.00 inches	(153 mm)	Max
Overall Diameter	..	..	..	1.66 inches	(42.1 mm)	Max
Net Weight	..	..	..	3 ounces	(90 gm)	Approx
Mounting Position	..	..	..	..	..	Any
Base	..	..	..	..	Medium UX4 with bayonet	
Cooling	..	..	..	..	..	Natural

ENGLISH ELECTRIC VALVE CO. LTD.
CHELMSFORD ESSEX, ENGLAND TECHNICAL PUBLICATIONS

Printed in England



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MAXIMUM OPERATING CONDITIONS

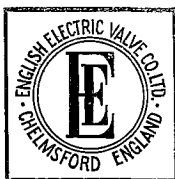
(Absolute Values—see Preamble)

D.C. Output with choke input filter and delayed H.T. switching

Circuit	* Diagram	Peak Inverse Voltage (up to 250c/s) V	Anode Current in Amperes		Transformer Secondary Voltage (R.M.S.) V	Max D.C. Output	
			Peak	Mean†		V	Amps
Single Phase Full Wave	A	725	4	0.5	255	230	1.0
Single Phase Full Wave Bridge	B	725	4	0.5	510	460	1.0
Three Phase Full Wave	D	725	4	0.5	295	690	1.5

* For diagrams see Typical Rectifier Circuits for Choke Input Filters in the preamble to this section of the catalogue.

† Mean anode currents are averaged over any period of 4.5 seconds.



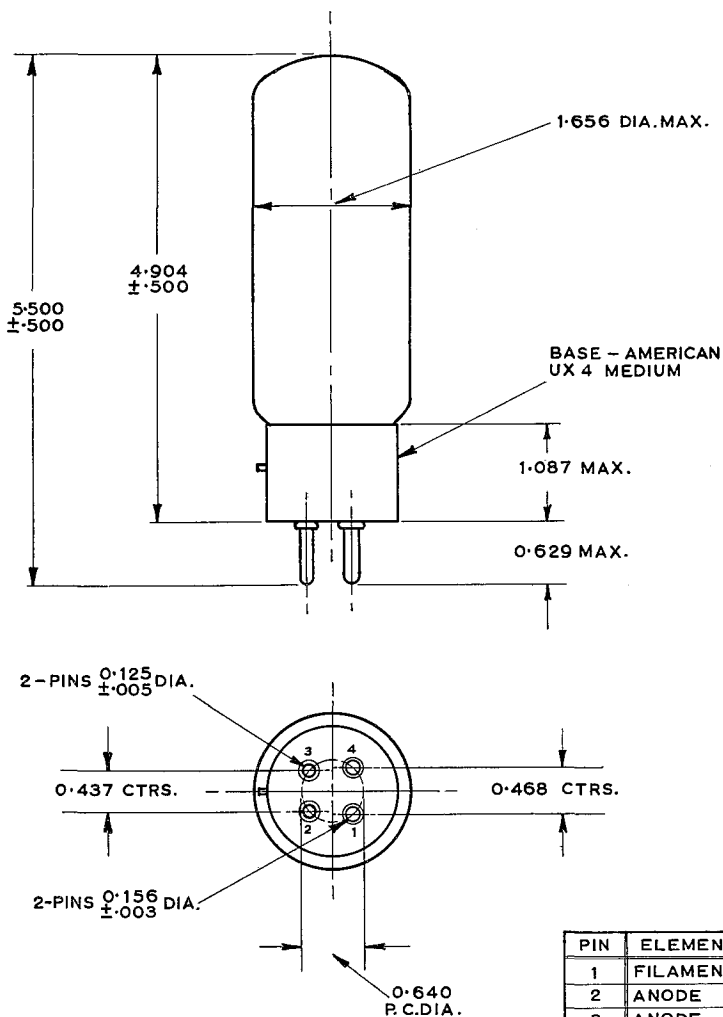
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OUTLINE

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ALL DIMENSIONS IN INCHES

PIN	ELEMENT
1	FILAMENT
2	ANODE
3	ANODE
4	FILAMENT

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