# Chapter 32

# AUTO-TRANSFORMER, ENGLISH ELECTRIC, TYPE AE 5728

#### LIST OF CONTENTS

Para.								Para.		
Introduct	ion				1	Servicing		4		
Descripti					2	Testing				
Installati		•••		• • •	3	Insulation resistance		5		
			r	ret O	F TLI	LUSTRATIONS				
		e e	11.41					Fig.		
					Fig.	C ()	-	2		
Auto-trai	nsformer, T)	pe AE 5	5728	• • •	1	Diagram of connections	• • •	2		
			I	EADI	NG P	PARTICULARS				
Auto-transformer					•••	Ref. No. 5UB/7422				
	Input	•••			•••	Voltage: 200±5 volts (r.m.s.) line to line				
	mp					Phases: 3				
				Frequency: $400 \pm 8 \ c/s$						
	Output	•••				4.26kVA at 285 volts				
	Rating	•••				Continuous				
	Cooling					Natural				
	Altitude rai					0–60 000 feet				
	Temperatur					$-60^{\circ}$ C to $+70^{\circ}$ C				
	Mounting					Any attitude				

#### Introduction

Mounting

Overall dimensions

Weight

1. The auto-transformer, English Electric, Type AE 5728 is a 3-phase transformer designed to deliver 4.26 kVA at 285 volts from a 200-volt, 3-phase, 400 c/s supply. The primary windings of the unit are delta connected and the secondary windings are extensions of this connection.

# DESCRIPTION

2. The windings of the unit are wound on second terminal block.

an 'E' core and the assembly is mounted between two frames which are secured together by four bolts, one at each corner. Connections from the windings are made to two terminal blocks which are mounted on a plate secured to the frames by spacer type studs. The primary windings are connected to terminals A2, B2 and C2 of one terminal block and the secondary windings are connected to terminals A1, B1 and C1 of the

...  $5\frac{3}{8}$  in.  $\times 2\frac{13}{16}$  in.  $\times 5\frac{5}{16}$  in.

 $\dots$  7 lb approx.

...

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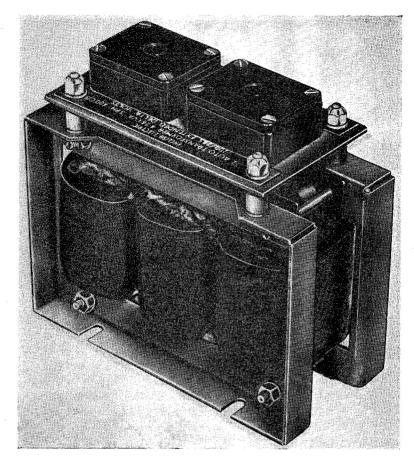


Fig. 1. Auto-transformer, Type AE 5728

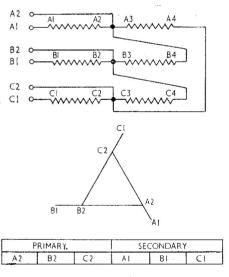


Fig. 2. Diagram of connections

#### INSTALLATION

3. The unit can be mounted in any attitude by four 2 B.A. bolts which fit in mounting slots cut in the feet of the frames. The input is connected to terminals A2, B2 and C2 of the autotransformer and the output is taken from terminals A1, B1 and C1.

### SERVICING

4. Examine the unit for signs of overheating of the windings, and for the security of the connections and of the mounting bolts.

#### **Testing**

Insulation resistance test

5. The insulation resistance between the windings and the frame shall be not less than 5 megohms when measured with a 500-volt insulation resistance tester.

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