Chapter 2

ROTARY INVERTER, TYPE 153A (ROTAX S3107/1)

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Inverter, Type 153A	*Ref. No.* 5*UB*/6730
Input	100 *to* 116*V d.c.*, 14 *amp.*
Output ...	115*V*, 3-*phase*, *a.c.*, 4·7 *amp.*, 400 *c/s*
Rating...	*Continuous*
Speed	8,000 *r.p.m.*
Rotation (*viewed from commutator end*) ...	*Clockwise*
Maximum operational altitude	50,000 *ft.* (*fan and blast cooled*)
Operative temperature range	−55 *deg. C to* +50 *deg. C*
Output connection (4-*pole Mk.* 4 *miniature plug*)	*Ref. No.* 10*H*/9560310
Control panel interconnection (12-*pole Mk.* 4 *miniature plug*) ...	... *Ref. No.* 10*H*/9560150
Brush grade—	
d.c. input	... *F2C* (*Ref. No.* 5*UB*/6729)
a.c. output	*KC.CM6* (*Ref. No.* 5*UB*/6486)
Brush spring pressure—	
d.c. input	15·5 *to* 17 *oz.*
a.c. output	4 *to* 5 *oz.*
Minimum brush length—	
d.c. input	0·375 *in.*
a.c. output	0·375 *in.*
Weight	30 *lb.*

0·8 lagging power factor, frequency 400 cycles per second

Rating	*continuous*
Speed	*8,000 r.p.m.*
Rotation (viewed from commutator end)	*clockwise*
Maximum operational altitude ...	*50,000 ft. (fan and blast cooling)*
Operative temperature range	*−55 to +50 deg. C.*
Electrical connections	
Input	*2 split terminals*
Output (3-pole miniature Mk. 4 plug)	*Ref. No. 10H/9560060*

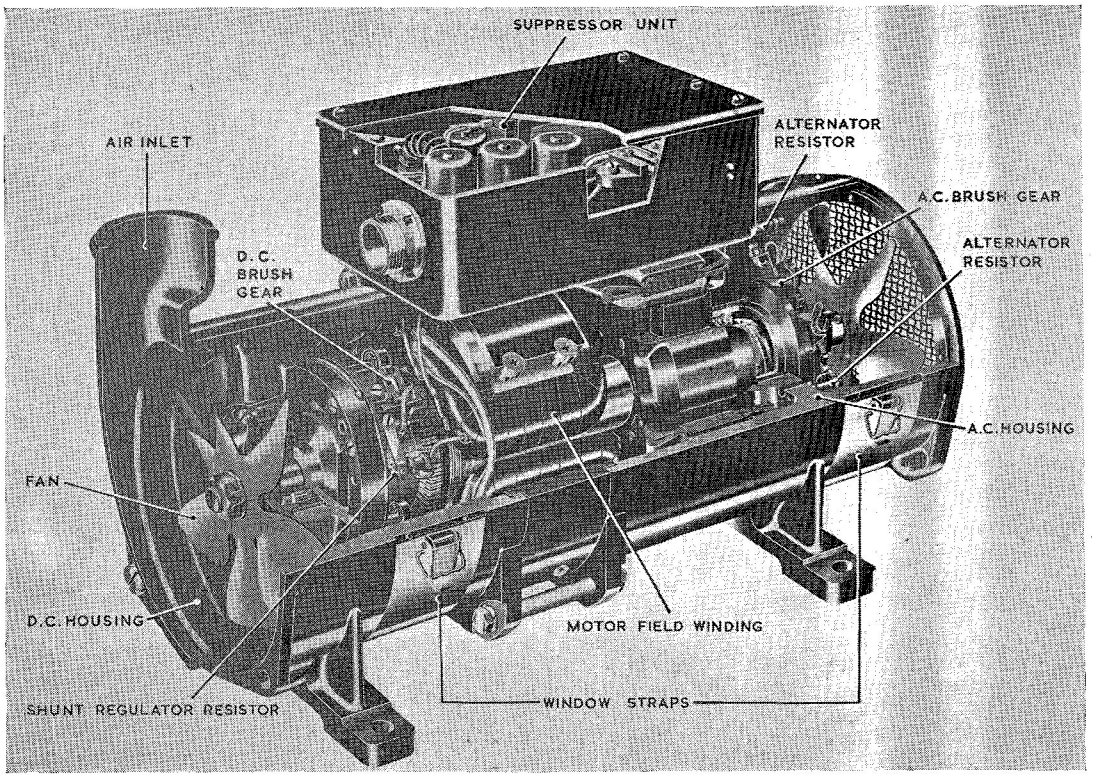

Fig. 1. Part sectioned Type 153 inverter

Introduction

1. The Type 153 inverter is used in conjunction with the control panel, Type 19, or with panels Type 19 and 25, to provide

Sect. 8, Chap. 2, App. 1. The Type 153 inverter (*fig.* 1) follows the same general construction but has two shunt field ballast resistors mounted on the brush-gear and four rotor

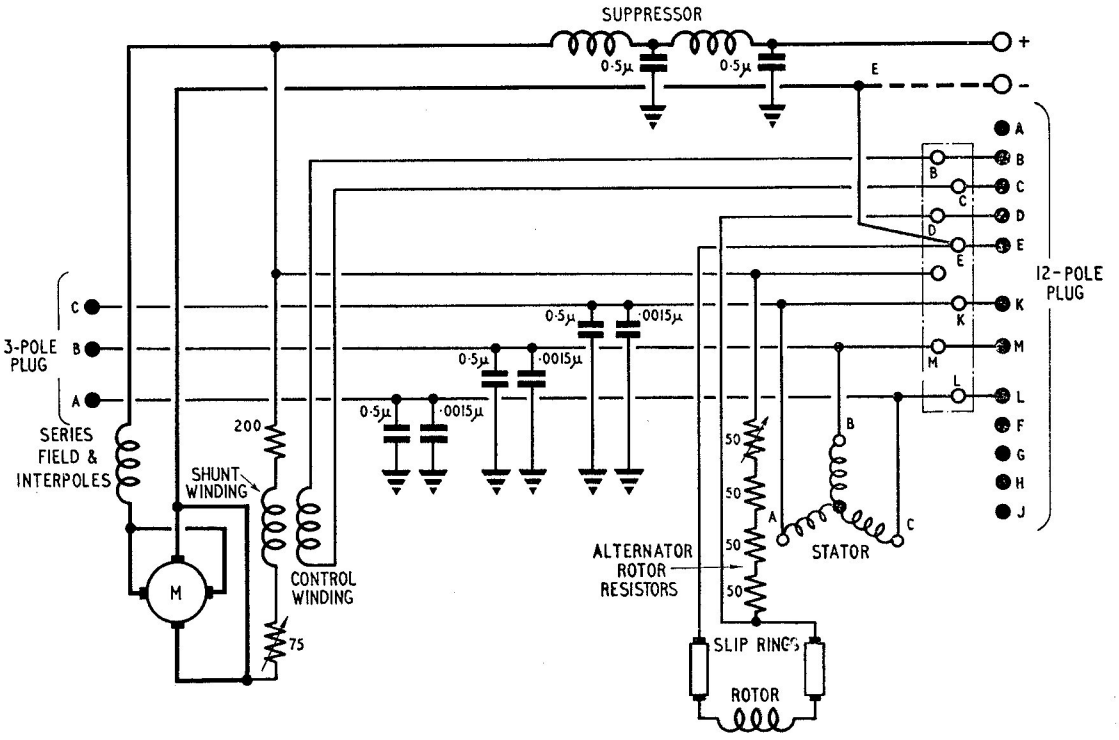

Fig. 2. Diagram of internal connections

P28150 252834/4021 2/58 1500 C & P **Gp. 1**