

WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY
 EAST PITTSBURGH, PA.
 REPORT OF TESTS ON ROTATING MACHINES

DATE **7/15/37**

Buyer **STANLEY HILLER, LTD.**

Stock Order No **35-F-153**

General Order No **SF-16410-TP**

Kv-a. **937.5** Volts **480** Amps **1130** Phase **3**

Machine **TURBO GENERATOR**

Poles **2** Rpm **3600** Cycles **60**

Temperature at **-75°C.**

Order No. **1S-35F153**

Order No. **1R-35F153**

Nature Resistance **.00314**

at Field Res. **.841**

os Field Resistance

am. Fld. + Comp. Fld. Res.

Values Amps **0**

at Volts **480**

No Load Fld. Amps **52**

R. P. M. **3600**

Amps **1130**

Values Volts **480**

Under Fld. Amps **92**

Load R. P. M. **3600**

Commutation

nce and Mech. Inspection **OK**

Test to Ground for One Min. **OK**

and Ser. Wdgs. Volts **2000**

nt Field. Volts **2600**

es at Kw. Hp.

7.5 K. V. A. **80** P. F.

Nature I²R Loss **6.00**

am. Fld. + Comp. Fld. I²R Loss

Field I²R Loss

Loss **5.54 ***

sh I²R Loss

nt Fld. + R. P. M. I²R Loss **7.12**

e Loss **8.10**

sh Friction Loss

ring. Friction and Windage Loss **8.97 ***

al F. L. Losses **35.73**

Cent Load **100**

gency **95.45**

75

50

ditions of Temp. Test **A ***

**** B**

C

Length of Test in Hours **5**

Const.

480

480

Minimal Amperes **1131**

1130

P. F. **0**

80

3600

3600

nt Field Amps **104.8**

92

nt Field Volts **96.5**

es Field Amps

es Field Volts

mutating Field Amps

mutating Field Volts

mutation

* From test on a duplicate unit.

**Values given in Column "B" at 80% P.F. were calculated from test made at 0% P.F., as given in Column "A".

Results of Temp. Test	* A	** B	C
Rise Arm Core. Thermo. °C	32.5		
Rise Arm. Winding Detector	40.5		
Rise Series Field Winding			
Rise Comm. Pole Field Winding			
Rise Shunt Fld. Wdg. By Res.	93	71	
Rise Commutator			
Rise Collector Rings	24.5		
Bearings			
Temp. Room Air	25	25	

The above is a true and correct record of data obtained from tests made at the Works of Westinghouse Electric & Manufacturing Company.

ATING MACHINE TEST REPORT

Signed **A.M. Gordon** 7/15/37 Engineer.

007881 - 07887 - 0217

Earth testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Ground lan

continuously connected to bus bars