

THE BRITISH THOMSON-HOUSTON CO., LTD., RUGBY.

# CERTIFICATE OF TEST.

12th November 1934

LE COMPOUND, COMPOLE, D.C. MOTOR.

MP.29F/ Form CB Phase Cycles Serial No. R.57552  
 ng 125-HP Volts 220 Arm./Rotor R.73704  
 472 Speed 160/320-RPM Cat. No.  
 Req. 300018/7000  
 S.O. No. M.404919  
 Messers. J. & E. HALL LTD.  
 Date of Test November 1934.

This Certificate covers tests taken on the above machine at Rugby.

The machine is equipped with two Marine type pedestal bearings, shaft with bare extension to take customer's flexible coupling; drip-proof canopy over machine.

Sheet 2 - Heat Run.  
 Operation.  
 Insulation Resistance test.  
 High Potential Test.

Sheet 3 - Resistances.  
 Efficiencies.



Certified

EEG/ELM

Engineer

004285-004291-0092 1/3



MP.29F/56 MOTOR No.R.57552

Sheet 2

8th & 9th November 1934

HEAT RUN for six hours on full load, followed by one hour on 20% overload, running as a motor:-

<u>Time</u>	<u>Line</u> <u>Volts</u>	<u>Line</u> <u>Amps.</u>	<u>Sh.fld.</u> <u>Current</u>	<u>Speed</u> <u>RPM</u>
8th Nov. 6-45 p.m.	220	472	2.1	315
Machine run for six hours on full load.				
9th Nov. 12-45 a.m.	220	472	2.05	328
Machine shut down and temperatures taken.				
9th Nov. 1-30 a.m.	220	566	2.06	330
Machine run for one hour on 20% overload.				
9th Nov. 2-30 a.m.	220	566	2.05	318
Machine shut down and temperatures taken.				

Temperature rise by thermometer in °C. after above heat run:-

	<u>After 6-hrs.</u> <u>on full load</u>	<u>After 1-hr.</u> <u>on 20% O.L.</u>
Armature core	20	27.5
Armature winding	20	30.5
Commutator	10	13.5
Main spools	17	21.5
Compoles	32	47.5
Air temperature	18	17.5

#### OPERATION - Official Test

The operation at 50% overload for one minute and 100% overload for one minute was satisfactory and witnessed by customer's representative.

#### INSULATION RESISTANCE TEST - Official test.

The insulation resistance to earth was found to be:-

Armature alone .....	40 megohms hot.
Complete machine .....	20 " "

#### HIGH POTENTIAL TEST - Official test.

The windings, brushgear and terminals of the machine withstood a high potential test of 2000 volts A.C. for 2 minutes to earth, hot.



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Cont'd...

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Sheet 3

CERTIFICATE OF TEST.

RESISTANCES

	Resistance in Ohms at 13.3°C.	Resistance in Ohms hot.
Armature winding	0.0220 (Calc)	0.0256 (calc)
Series winding	0.00118 (test)	0.00129 (test)
Compole winding	0.00676 (test)	0.00774 (test)
Shunt field winding	27.45 (test)	30.2 (test)

EFFICIENCIES BY SEGREGATION OF MEASURABLE LOSSES AT 320-RPM

See results on Machine No.R.57551, O. No.R.40919.

Order's Order No.

Date of Test November 1934.



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