

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

# CERTIFICATE OF TEST.

12th November 1934

TLE COMPOUND, COMPOLE, D.C. MOTOR.

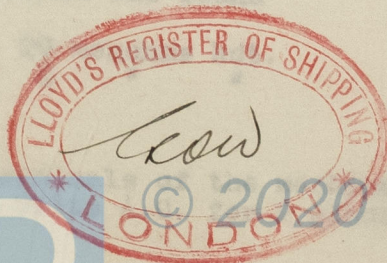
pe MP.29F/ Form CB Phase Cycles Serial No. R.57550  
/56  
ting 125-HP Volts 220 Arm./Rotor R.73703  
ap. 472 Speed 160/320-RPM Cat. No.  
Req. 300018/7000  
stomer Messrs. J. & E. HALL LTD. S.O. No. M.404919.  
stomer's Order No. Date of Test November 1934.

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.  
High Potential Test.

Sheet 3 - Resistances.  
Efficiencies.



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EEG/ELM

Certified

A.A. POLLOCK

004285-004291-0093 '13

Engineer



MP.29F/56 MOTOR No.R.57550

Sheet 2

8th November 1934 - Official Test

HEAT RUN for 6 hours on full load followed by one hour on 25% overload running as a motor:-

<u>Time</u>	<u>Line Volts</u>	<u>Line Amps.</u>	<u>Sh.fld. current</u>	<u>Speed RPM</u>
9-0 a.m.	220	472	1.87	320
Machine run for 6 hours on full load.				
3-0 p.m.	220	472	2.04	320
Machine shut down and temperatures taken.				
3-30 p.m.	220	590	1.9	320
Machine run for one hour on 25% overload.				
4-30 p.m.	220	590	1.9	320
Machine shut down and temperatures taken.				

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

	<u>After 6-hrs. on full load</u>	<u>After 1-hr. on 25% O.L.</u>
Armature core	24	33
Armature winding	22	30
Commutator	15	14
Main spools	19	23
Compoles	34	49
Air temperatures	17	19

OPERATION

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

INSULATION RESISTANCE

The insulation resistance to earth was found to be:-

Armature alone .....	20 megohms hot.
Complete machine .....	6 " "

HIGH POTENTIAL 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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MP. 29F/56 MOTOR No.R.57550

Sheet 3

CERTIFICATE OF TEST.

RESISTANCES

	Resistance in Ohms at 14.7°C.	Resistance in Ohms hot.
Armature winding	0.0222 (Calc)	0.0256 (calc)
Series winding	0.00127 (test)	0.00145 (test)
Compole winding	0.00705 (test)	0.00795 (test)
Shunt field winding	27.65 (test)	31.0 (test)

EFFICIENCIES BY SEGREGATION OF MEASURABLE LOSSES AT 320-RPM

See results on Machine No.R.57551.

S.O. No. 8.4.1917

Date of Test November 1917

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