

1861-B  
4/34

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
ting 125-HP			Volts 220	Arm./Rotor	R.73703
ap. 472		Speed 160/320-RPM		Cat. No.	
stomer Messrs. J. & E. HALL LTD.				Req.	300018/7000
stomer's Order No.				S.O. No.	M.404919.
			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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Certified

A.A. POLLOCK

004285-004291-0093 '13

Engineer

8th November 1934 - Official Test

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

Time	Line Volts	Line Amps.	Sh.fld. current	Speed RPM
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:-

	After 6-hrs. on full load	After 1-hr. on 25% O.L.
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

	<u>Resistance in Ohms at 14.7°C.</u>	<u>Resistance in Ohms hot.</u>
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. 8.45000

Date of Test November 1974

The following covers tests taken on the  
 machine equipped with shaft.  
 The object of testing the spare armature  
 is to determine the resistance and bearings of machine

Test No. 1  
 Insulation Resistance.  
 High Potential Test.  
 Resistance.

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