

D. C. TEST SHEET

Customer <u>Vickers Armstrongs Limited.</u>						Machine No. D <u>211043</u>			
Customer's Order No. <u>193 H.S. 474/23/1001/1</u>						Frame Size <u>R33A</u>			
Design No. <u>etc.</u>						Enclosure <u>(Fields)</u> <u>1</u> (Arm)			
Remarks	Time	R.P.M.	SHUNT		Ohms. Ext.	LINE			
			Volts	Amps.		Volts	Amps		
			Rating. Continuous <u>1</u> Hour.						
			B.H.P. <u>KWX 1</u>						
			R.P.M. <u>600</u>						
No Load. Cold	1.45	610		.88		110	1.9		
	3.0	630		.795		110	1.8		
	3.0	590		.8		110	10		
	3.30	600		.79		110	10		
Resistance. Arm + Int + Series						1.32 Ohms.			
Brushes: <u>EG12 "X₂" - 4</u>									
No Load. Hot		640		.79		110	1.8		
No Load Calculations		Armature Amps		9.21					
Total Amps		Fe + Fr + Shunt				Overloads 100% for $\frac{1}{2}$ minute.			
Shunt "		Brush Losses				Temps. from M/C. No. 211044			
Arm. "		C ² R. Arm/Int/Ser				M/C. inspected by Mr. Murchison			
Total Watts		Total Losses				c/o Lloyds Reg.			
Shunt "		Input Watts							
Arm. "		Output Watts							
Arm/Int/Ser. C ² R		B.H.P.		.988					
Fe + Fr		Efficiency %		67.0					
Temperatures °F @ Full Load						Resistances in Ohms.			
Where taken	Temp.	Air	Rise	Part	Cold	Hot	Temp. Rise		
Armature Core	44	19	25	Shunt Coils	124				
" Winding	40	19	21	Armature Winding	.92				
Commutator	38	19	19	Interpole "	.4				
Interpoles	39	19	20	Series Winding					
Shunt Coils	44	19	25	High Voltage Test	Insulation to Earth				
Series Coils				Volts 2,000	30 Megohms.				
				Time 1 minute					
				Commutation sparkless @	15 Amperes				
Tested <u>W. Dunn</u>	Date <u>6.10.60.</u>	Approved <u>H. Kern</u>		Date <u>13.10.60.</u>					

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