

S.S. "EMPIRE HONDURAS"

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SUNDERLAND. N<sup>o</sup> 34325

## CAMPBELL &amp; ISHERWOOD LTD

TELEPHONE:  
BOOTLE 2581.

BOOTLE, LIVERPOOL.

TELEGRAMS:  
"PRESSURE," LIVERPOOL

## CERTIFICATE OF TEST.

MACHINE No. 31152 DATE OF TEST 28-5-45 CERTIFICATE No. 4863.G

MACHINE SPECIFICATION ONE: 110<sup>0</sup>/750 SIZE DRIP PROOF TYPE SINGLE BUSH

BEARING FAN VENTILATED COMPOUND WOUND GENERATOR.

MESSRS. SHORT BROS. NO. 486 SHIP.

OUTPUT: 15 kw. 110 volts 136 amps. 600 rpm.

TIME	VOLTS	AMPS	SHUNT AMPS.	RPM.	
9.00	107	0	2.30	600	Cold
9.30	110	136	2.38	600	Comp.
10.00	110	136	2.38	600	
10.30	110	136	2.40	600	
11.00	110	136	2.43	600	
11.30	110	136	2.50	600	
12.00	110	136	2.52	600	
12.30	110	136	2.6	600	
1.00	110	136	2.6	600	
1.30	110	136	2.6	600	
2.00	110	136	2.6	600	
2.30	110	136	2.6	600	
3.00	110	136	2.6	600	
	105	0	2.6	600	Final
	115	0	3.2	600	Comp.
	110	0	2.6	618	Full Field
	110	204	2.82	618	3% Speed Increase
				600	50% Overload

Temperatures after 6 Hours Full Load Run.

Atmosphere	64°F	Rise
Armature Windings	117°	53°
Armature Core	117°	53°
Series	106°	42°
Shunt	110°	46°
Commutator	100°	36°

3.15	110	170	2.8	600	25% Overload
3.45	110	170	2.8	600	
4.15	110	170	2.8	600	
4.45	110	170	2.8	600	for
5.15	110	170	2.8	600	2 Hours.

Insulation Resistance Hot: 5 Megs.

Flash Tested at 2000 volts Satisfactory

CAMPBELL &amp; ISHERWOOD LTD.,

Per. *[Signature]*

Foundation

011823-011825-0180

per Rule.

If circuit breakers are provided for the generators, at what overload are all