

CAMPBELL & ISHERWOOD LTD.

BELONGS TO AMSTERDAM REPORT
No. 17053

DNE:
2581

BOOTLE.

LIVERPOOL.

TELEGRAMS:
"PRESSURE," LIVERPOOL

Certificate of Test

CHINE NO. 45784 DATE OF TEST 12.1.51 CERTIFICATE NO. G7813

CHINE SPECIFICATION ONE:- 4110 A.V. DOUBLE BALL & ROLLER BRG FAN VENT

IP PROOF COMP GENERATOR. ROTATION:- ANTI CLOCK ON COMM END

INPUT:- 110 VOLTS 29 KW 264 AMPS 1000 RPM RATING:- CONT. 63° F RISE

ME	VOLTS	AMPS	SHUNT AMPS	V/R	RPM
160	---	4.6	---	1040	Full Field
110	264	1.7	52	1000	Cold Regulation
82	---	1.22	39	1040	Rock in Neutral
159	---	4.53	---	1040	Full Field
110	264	1.93	44	1000	Cold Reg
110	---	1.93	44	1040	
98	---	1.6	43	1040	27 Ohms in Reg
.00 110	264	1.93	44	1000	
.30 110	264	1.96	41	1000	
.00 110	264	2.00	38	1000	
.30 110	264	2.00	37	1000	
.00 110	264	2.00	36	1000	
.30 110	264	2.00	35	1000	
.00 110	264	2.00	35	1000	
.30 110	264	2.00	34	1000	
.00 110	264	2.00	34	1000	
.30 110	264	2.00	34	1000	
.00 110	264	2.00	33	1000	
.30 110	264	2.00	33	1000	
.00 110	264	2.00	33	1000	
110	264	1.93	37	1000	Hot Regulation
110	---	1.93	37	1040	
98	---	1.6	39	1040	10% Down
110	330	2.0	33	1000	25% Overload
110	396	2.16	29.2	1000	50% Overload
154	---	4.0	---	1040	Full Field

TEMPERATURES TAKEN AFTER SIX HOURS FULL LOAD RUN

Imos	47°	F	Rise
rmature	92°	F	45°
hunt	89°	F	41°
eries	88°	F	41°
nterpole	84°	F	37°
ommutator	83°	F	36°

OT RESISTANCES

rmature	-	.0126 Ohms
nterpoles	-	.0047 Ohms
eries	-	.0022 Ohms

EFFICIENCY IN ACCORDANCE WITH B.S.S. 269/27 AND ALLOWANCES MADE FOR TRAY LOAD LOSSES

/2 LOAD	81.6	%
/4 LOAD	84.65	%
ULL LOAD	85.8	%
.1/4 LOAD	86.95	%

nsulation Resistance of whole machine to Earth - 2.5 Megs - Hot.

lash Tested @ 2,000 Volts - Satisfactory.

ASSESSED & INSPECTED BY MR. SMYTH (LLOYDS LIVERPOOL)

CAMPBELL & ISHERWOOD LTD

Per.....

004055-004061-0194

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Lloyd's Register

Belongs to Amsterdam Export
No. 15823

CAMPBELL & ISHERWOOD LTD.

TELEGRAMS: "PRESSURE", LIVERPOOL

LIVERPOOL

BOOTLE

Certificate of Test

CERTIFICATE NO. 67823

DATE OF TEST 12.1.51

CHINE NO. 45704

ENGINE SPECIFICATION
ONE - 410 A.V. ENGINE BALL & ROLLER END VAN VENT

PROOF COMP. OPERATOR - NOTATION - VENT GROUND ON CORN END

FUT - 110 VOLTS 20 KW 200 AMP 1000 RPM RATING - CORR. 200 F. RISE

TEST	VOLTS	AMPS	WATTS	REMARKS
100	110	4.8	528	1040 Full Field
110	110	1.7	204	1000 Cold Regulation
120	110	1.32	158	1040 Hot Regulation in Neutral
130	110	4.8	528	1040 Full Field
140	110	1.32	158	1000 Cold Reg
150	110	1.32	158	1040
160	110	1.3	150	1040 20 Ohms in Reg
170	110	1.32	158	1000
180	110	1.32	158	1000
190	110	2.00	220	1000
200	110	2.00	220	1000
210	110	2.00	220	1000
220	110	2.00	220	1000
230	110	2.00	220	1000
240	110	2.00	220	1000
250	110	2.00	220	1000
260	110	2.00	220	1000
270	110	2.00	220	1000
280	110	2.00	220	1000
290	110	2.00	220	1000
300	110	2.00	220	1000
310	110	1.32	158	1000 Hot Regulation
320	110	1.32	158	1040
330	110	1.3	150	1040 10 Ohms
340	110	2.0	220	1000 20 Ohms
350	110	2.12	233	1000 20 Ohms
360	110	4.8	528	1040 Full Field

TEMPERATURES TAKEN AFTER SIX HOURS FULL LOAD RUN

TEMP.	TYPE	REMARKS
47.5	P	1040
45.0	P	1040
41.0	P	1040
41.0	P	1040
37.0	P	1040
35.0	P	1040

TEMPERATURES

1040	1040	1040
1040	1040	1040
1040	1040	1040

EFFICIENCY IN ACCORDANCE WITH B.S. 2. 200/20 AND ALLOWANCES MADE FOR
RAY LOAD LOSSES

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ENGINEERS

Recd. 19 APR 1951

Amc. Lloyd's Register

Foundation

Signature