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/

IX

P.F.

Syn. Speed

FL Amps

on

Rotor/Field Amps

Stat/Rot. O.C. V ratio

A.C.

Ohms

Field

A.C.

Rating

Control

Amps

Speed

Volts

Amps

Cold

Hot

Full Load

Half Load

Temperature rise

- Alternator

- Exciter

Rotation

A - B - C.

Full Load

Half Load

Final Airgap

Amps FL

Volts FL

Speed FL

Sh. Cir. Amps

Megohms

Volts 50

Mins

Type

Type

Ohms

Volts

Volts

Amps NL

Volts NL

Speed NL

Insulation to Frame

Flashed to Frame

Brushes

Commutation

Starter

Regulator

Range

Ohms

Ohms

Volts

Volts

Amps FL

Volts FL

Speed FL

Sh. Cir. Amps

Megohms

Volts 50

Mins

Type

Type

Ohms

Volts

Volts

THE MACFARLANE ENGINEERING CO. LTD.

NETHERLEE ROAD, CATHCART

GLASGOW

Job No. 30728/E.

TEST SHEET

Type Alternator.

Mrs. Ruston & Hornsby Ltd.

C.W. Rotation Comm. S.R. Shaft End of Gen./Motor

A.C.

MOTOR and/or ALTERNATOR

D.C.

MOTOR and/or GENERATOR/EXCITER

P.F. Volts 440/250 3

Syn. Speed 1000

FL Amps 82

on Connection

Rotor/Field Amps

Stat/Rot. O.C. V ratio

A.C. 0.04"

Ohms / Amps /

Field

A.C. Rating Cont.

H.P./KW Volts 28 Speed 3000

Arm. Amps Shunt Amps

Machine Amps 60

Int/Comp. Resist. (Hot)

Series Resist. (Hot)

Shunt Resist. (Hot)

A.C. 0.15" A.C. Interpoles

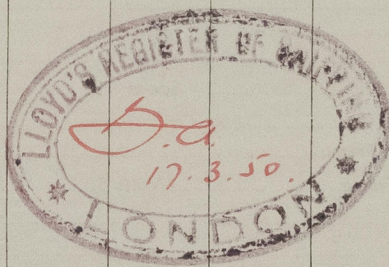
Regl. Bore 750 Ohms - / 58 Amps /

Note

Starter

Enclosure D.P.F.V. Rating Cont.

Control Amps	Speed	Volts	Amps					
0.5	1000	26	60	Cold				
0.5	1000	28	60	Hot				
Full Load/No Load Regulation.								
Regulator Range.								
Temperature rise - Alternator 67°F.								
" " - Exciter 74°F.								
Rotation A - B - C.								
Full Load 86%								
Half Load 82%								



Final Airgap							
Amps FL 82	Volts FL 440	Speed FL 1000	Sh. Cir. Amps 8	Amps NL 22	Volts NL 10	Speed NL 3000	Insulation to Frame 2000
Volts 50 1	Mins 1	Type T50	Type T50	Amps FL 60	Volts FL 28	Speed FL 3000	Flashed to Frame 4, 1"x1" SMO. 4, 1"x1" EG12K
Ohms 58	Volts 432	Volts 480	Volts 480	Ohms 2000	Ohms 2000	Ohms 2000	Commutation Good
Ohms 432	Volts 480	Volts 480	Volts 480	Ohms 2000	Ohms 2000	Ohms 2000	Starter
Ohms 432	Volts 480	Volts 480	Volts 480	Ohms 2000	Ohms 2000	Ohms 2000	Regulator
Ohms 432	Volts 480	Volts 480	Volts 480	Ohms 2000	Ohms 2000	Ohms 2000	Range

A.C. MOTOR and/or ALTERNATOR				D.C. MOTOR and/or GENERATOR			
H.P./KVA.....	P.F.....	Volts.....	Ph.....	H.P./KW.....	Volts.....		
Cycles.....	Syn. Speed.....			Arm. Amps.....	Shunt.....		
NL Amps.....	FL Amps.....			Machine Amps.....			
Sh. Cir. Amps.....	on.....	Connection.....		Int/Comp. Resist. (Hot).....			
Rotor/Field Volts.....	Rotor/Field Amps.....			Series Resist. (Hot).....			
Rotor/Field Conn.....	Stat/Rot. O.C. V ratio...../.....			Shunt Resist. (Hot).....			
Stator Conn.....	A.G.....			A.C. Poles.....	A.G. Interp.....		
Reglr.....	Ohms...../.....	Amps...../.....		Reglr.....	Ohms...../.....		
Regulator In.....	Field.....			Note:.....			
Starter.....				Starter.....			
Enclosure.....	Rating.....			Enclosure.....			

Volts	Amps	Airo In °C	Airo Out °C	Time	Speed	Output Volts	Output Amps	Field Volts	Field Amps
Heat Run <u>4 Hours.</u>		16	23	1.00	1000	440	88	26	63
		19.5	39	2.00	1000	440	88	29	62
		22	47	3.00	1000	438	86	30	61
		21	48	4.00	1000	438	86	30	60
		22	48.5	5.00	1000	438	86	30	60
<u>Final Temperatures.</u>				<u>Rises</u>					
<u>Alternator.</u>									
Stator Windings		54°C	(130°F)	37°C	(67°F)				
Rotor Windings		52°C	(125°F)	35°C	(62°F)				
Slip Rings		46°C	(115°F)	29°C	(52°F)				
<u>Exciter.</u>									
Stator Windings		47°C	(117°F)	30°C	(54°F)				
Armature Wdgs.		54°C	(130°F)	37°C	(67°F)				
Commutator.		58°C	(137°F)	41°C	(74°F)				
Ambient.		17°C	(63°F)						

Final Airgap				Final Airgap			
Amps NL.....	Amps FL.....			Amps. NL.....	Amps. FL.....		
Volts NL.....	Volts FL.....			Volts NL.....	Volts FL.....		
Speed NL.....	Speed FL.....			Speed NL.....	Speed FL.....		
Sh.Cir.Volts.....	Sh. Cir. Amps.....			Insulation to Frame.....			
Insulation to Frame.....	Megohms.....			Flashed to Frame.....	Volts 50.....		
Flashed to Frame.....	Volts 50.....	Mins.....		Brushes.....			
Brushes.....				Commutation.....			
Starter.....	Type.....			Starter.....	Type.....		
Regulator.....	Type.....			Regulator.....	Type.....		
Range.....	Ohms / Ohms; Volts / Volts.....			Range.....	Ohms / Ohms; Volts / Volts.....		

REMARKS



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Tested by R. McB. Date 28/10