

7.3 Certificato di collaudo alternatore

TEST CERTIFICATE FOR SYNCHRONOUS A.C. GENERATOR

Date:

24-ott-05

TEST ROOM DEP

Order

521503

Purchaser

3Ph. Synchron Gener

Type MJB 250 LA 4

Code

MJB2572L012M0

N°

MR27821

Conn	Power	Tens	Curr	Freq	Cosφ	RPM	Vecc	Iecc	Insul.Cl.	Tamb	OverT	Prot. De.	Service
US	210	400	303	50	0.8	1500	28	3	H	40	H	23	
US	230	400	332	50	0.8	1500	30	3		40	H	23	
UU	200	220	525	50	0.8	1500	28	3	H	40	H	23	
UU	210	220	551	50	0.8	1500	28	3	H	40	H	23	
UU	220	220	577	50	0.8	1500	30	3		40	H	23	
UU	230	220	603	50	0.8	1500	30	3		40	H	23	

Voltage regulator N°

Code

Standard

IEC-34-1

Electrical dwg.

ITEM

NO LOAD VOLTAGE REGULATOR CONTROL

potenziometer position	GEN. VOLTAGE	Exciter		Frequency Hz
		Voltage	Current	
V Min	289.6	4.20	0.37	50.1
V Nom	400.5	6.86	0.61	50.2
V Max	423.6	8.18	0.72	50.1

UNDER FREQUENCY PROTECTION CONTROL

MAX FIELD CURRENT	FREQ
0.8	45.40

PHASE BALANCING

U 400.6 V 400.5 W 400.3

3 PHASE SHORT CIRCUIT PERMANENT CURR

I short C.	Field current	RPM
> 3 I nom		49.8127

 Cyclic sense of phases
with clock-wise rotation
facing drive end

U R V S W T

OVERLOAD 1.5 I nom - 120 Sec

Residual phase voltage

Volt 32.86

OVERSPEED

72.00 Hz Max 120 Sec

LOAD TEST

Hz	Vac	Iac	Kva	W	W	Kwattm.	Kw	Cos φ	V.exc	I.exc
50.0	397.2	303.5	208.8					0.1	27.7	2.5
50.1	397.6	303.0	208.7					0.1	27.6	2.5

VOLTAGE DROOP CHECK WITH PARALLEL DEVICE

No load volt	Full load Volt	Pow factor	Volt drop %

RESISTANCE MEASUREMENT

Generator stator phase (mΩ)

U-V V-W W-U

20 °C

Rotor

Ω

Exciter rotor (mΩ)

1-2 2-3 3-1

Exc. Stator

Ω

HIGH POTENTIAL TEST Volt a.c.

Armature 2000 Field 1500 Exciter 1500

RADIO DISTURB SOPP.

Standard Degree

VDE0875 G

VDE0875 N

VDE0875 K

PROTECTION CONTROL

Thermoresistances

Heaters

Diagram

INSULATION RESISTANCE MΩ

Armature > 100 Field > 100 Exciter > 100

Purchaser Order

2183

Project

REMARKS

Generator complete with EMC filter in compliance to directive EMC 89/336/ECC and standard EN50081-2 EN50082-2

Test Bench

Test room

Insp. Engineer