

**MarelliMotori S.p.A.**

PART OF THE FKI GROUP OF COMPANIES

TEST ROOM DEPARTMENT

MOTORE ASINCRONO TRIFASE
THREE PHASE INDUCTION MOTOR
MOTEUR ASYNCHRONES TRIPHASETYPE **D5C 250 M2** ORDER MARELLI
SERIAL **PROTOTYPE** pos.
ITEM

ORDER PURCH.

DATI DI TARGANAME PLATE DATA
VALEURS DE PLAQUE**Cliente**

Custom / Client

DESTINAZIONE

Intended for / Destination

Misura delle resistenze a freddo / Cold resistance measurements / Mesures des résistances à froid

Temp. Amb.	18,5 °C	U1-U2 mΩ	V1-V2 mΩ	W1-W2 mΩ
		109,89	109,8	109,88

kW	55
V	400
A	98
Conn.	d
Hz	50
RPM	2960
Cos φ	0,87
Insul.	F
Duty	S1
CESI	EEX D II B T4
CERT.	02/071
CODE	D5C2541A00016
Frame	B3
Prot.	IP55
STANDARD:	CEI 2-3 IEC 34-1
T amb.	40 °C

Prova a vuoto	V	Amp.	VA	W tot.	Cos φ
No load test					
Essai à vide	400	31,7	21962	1.780	0,081

Conn. d

Prova di cc.	V	Amp.	kVA	W	Cos φ	kgm
Lock.Rot.Test	400	692,0	479,43			44
Essai en co.ci	84	119,3	17,357	6950	0,400	

Coppia nominale	18,1 kgm
Nominal torque/Couple nom.	
Corrente di avviamento	7,06 p.u.
Start curr./Courant de dém.	
Coppia avviamento	2,43 p.u.
Start torque/Couple dém.	

Conn. d

Prova a carico	V	Amp.	kVA	W in	Cos φ	RPM	slip%	W out	effic. %	load%
Load test by	400	98,3	68,10	59200	0,869	2957	1,43	55033	92,96	100
Essai en charge										
(metodo sep. perd.)										
(losses segr.method)										
IEC 34-2										

Temperature rise at 100 % P/Pn 400 V time : 4 hours Connection at DELTA

Resist. a freddo / Cold resistance / Résist. a froid
73,35 mΩ 19 °C amb**Resist. a caldo** / Hot resist. / Résist. a chaud
96,5 mΩ 21 °C amb**Sovratemperatura K**
Δt = 78,0 avv
Δt = PT 100
Δt = aria**Sovratemperatura esterna cassa**

Frame surface temp. rise Δt = 28 K

Surtemperature surface carcasse

Sovratemperatura cuscinetto

Bearing temperature rise Δt = K

Surtempérature de roulement

Misura della velocità di vibrazione

Vibration speed measurement / Determination de la vitesse de vibration

Pos. 1	Pos. 2	Pos. 3
(horizz.)	(vert.)	(axial)

mm/sec. Val.eff.
mm/sec. r.m.s.**Sovravelocità**3600 RPM for 120 sec
Overspeed / Survitesse**Livello pressione sonora**Average noise pressure level
Niveau de pression acoustique

dB (A)

1 m...=

Intensità di vibrazione [norma rif. IEC 34-14/ISO 2373]

Vibration grade / Niveau de vibration

PROVA DI TENS. APPL. / APPL. VOLT. TEST / ESSAI DE TENSION APPLIQUEE**Verso massa** / To earth / A la masse 2 kV for 60"sec.**Tra le fasi** / between phases / Entre phases 2 kV for 60"sec**Resist. d'isolamento** a 500 V. DC

Insulation resist. > 50 Mohm

Resist. d'isolement

NOTE :

Procedure M.M. di riferimento**F 96921 - F 96470 - F 96432 - F 96433**

Reference M.M. procedure

Procédure M.M. de référence

INSPECTING ENGINEER

TEST ROOM

MARELLI MOTORI S.p.A.

DATE

mar-01