

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

<b>NAMEPLATE DATA</b>	<b>IEC TYPE</b>	<b>45 KW</b>	<b>2975 RPM</b>
K225M-2 <b>FRAME</b>	<b>3 PHASE</b>	<b>400 VOLTS</b>	<b>50 HZ / CYCLES</b>
<b>93,7 EFFICIENCY</b>	<b>77,3 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>2 POLE</b>	<b>S1 DUTY</b>	<b>0,852 PF</b>	<b>92,9 IE2</b>
<b>VALIADIS MANUFACTURER</b>	<b>SERIAL NO.</b>	<b>F INS.CLASS</b>	<b>DELTA CONNECTION</b>

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE	OHM	0,1135
NO LOAD CURRENT	AMP	29,60
NO LOAD INPUT	W	1458,7
CORE LOSS(Pfe)	W	910,7
WINDAGE FRICTION LOSS(Pfw)	W	462,4
STATOR WINDING LOSS(Pcu1)	W	750,8
ROTOR WINDING LOSS(Pcu2)	W	392,1
STRAY LOAD LOSS(Ps)	W	501,9
FULL LOAD CURRENT	AMP	81,33
LOCKED ROTOR CURRENT	AMP	620,50
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	8,0
LOCKED ROTOR INPUT @ FULL LOAD	kW	243,05
FULL LOAD TORQUE	N.m	144,55
LOCKED ROTOR TORQUE	N.m	310,81
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2,15
PULL OUT TORQUE	N.m	494,2
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	3,41
EFFICIENCY @ FULL LOAD	%	93,7
EFFICIENCY @ 75% LOAD	%	93,6
POWER FACTOR @ FULL LOAD		0,85
FULL LOAD SLIP	%	0,846
FULL LOAD SPEED	r/min	2975
STATOR WINDING TEMPERATURE RISE	K	53
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	44,3
SOUND POWER LEVEL	dB(A)	83
VIBRATION	mm/s	1,1

standard methods for determining losses and efficiency from tests: pu determined from residual loss(IEC60034-2

<b>VALIADIS S.A.</b>  <b>K225M-2</b> <b>45 kW</b>  <b>400 VOLTS 50 Hz</b>	<b>SCALE</b>	N/A		
	<b>DATE</b>		<b>REV</b>	
	<b>DRAWN</b>		<b>DOCUMENT NO.</b>	
	<b>APPRVD</b>			
	<b>CHECKED</b>			