

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

<b>NAMEPLATE DATA</b>	<b>IEC TYPE</b>	<b>90 KW</b>	<b>1487 RPM</b>
K280M-4 <b>FRAME</b>	<b>3 PHASE</b>	<b>400 VOLTS</b>	<b>50 HZ / CYCLES</b>
94,8 <b>EFFICIENCY</b>	<b>156,2 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>4 POLE</b>	<b>S1 DUTY</b>	<b>0,873 PF</b>	<b>94,2 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	0,0478
NO LOAD CURRENT	AMP	54,22
NO LOAD INPUT	W	2169,8
CORE LOSS(Pfe)	W	1765,0
WINDAGE FRICTION LOSS(Pfw)	W	277,4
STATOR WINDING LOSS(Pcu1)	W	1162,1
ROTOR WINDING LOSS(Pcu2)	W	780,4
STRAY LOAD LOSS(Ps)	W	927,9
FULL LOAD CURRENT	AMP	156,84
LOCKED ROTOR CURRENT	AMP	1082,35
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6,9
LOCKED ROTOR INPUT @ FULL LOAD	kW	341,82
FULL LOAD TORQUE	N.m	578,21
LOCKED ROTOR TORQUE	N.m	1354,98
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2,34
PULL OUT TORQUE	N.m	1762,0
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	3,04
EFFICIENCY @ FULL LOAD	%	94,8
EFFICIENCY @ 75% LOAD	%	95,0
POWER FACTOR @ FULL LOAD		0,87
FULL LOAD SLIP	%	0,848
FULL LOAD SPEED	r/min	1487
STATOR WINDING TEMPERATURE RISE	K	64
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	53,1
SOUND POWER LEVEL	dB(A)	77
VIBRATION	mm/s	1,6

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

<b>VALIADIS S.A.</b>  <b>K280M-4</b> <b>90 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>			