

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	18,5 KW	2942 RPM
K160L-2 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
91,6 EFFICIENCY	30,9 AMPS	55 IP	IC411 IC
2 POLE	S1 DUTY	0,896 PF	90,9 IE2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE	OHM	0,4487
NO LOAD CURRENT	AMP	8,64
NO LOAD INPUT	W	608,6
CORE LOSS(Pfe)	W	379,4
WINDAGE FRICTION LOSS(Pfw)	W	198,5
STATOR WINDING LOSS(Pcu1)	W	481,5
ROTOR WINDING LOSS(Pcu2)	W	372,9
STRAY LOAD LOSS(Ps)	W	261,7
FULL LOAD CURRENT	AMP	32,54
LOCKED ROTOR CURRENT	AMP	249,53
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	8,1
LOCKED ROTOR INPUT @ FULL LOAD	kW	78,95
FULL LOAD TORQUE	N.m	60,08
LOCKED ROTOR TORQUE	N.m	159,20
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2,65
PULL OUT TORQUE	N.m	171,6
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2,85
EFFICIENCY @ FULL LOAD	%	91,6
EFFICIENCY @ 75% LOAD	%	92,0
POWER FACTOR @ FULL LOAD		0,90
FULL LOAD SLIP	%	1,929
FULL LOAD SPEED	r/min	2942
STATOR WINDING TEMPERATURE RISE	K	65
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	57,1
SOUND POWER LEVEL	dB(A)	75
VIBRATION	mm/s	1,8

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

VALIADIS S.A.		SCALE	N/A		
		DATE		REV	
K160L-2 18,5 kW 400 VOLTS 50 Hz		DRAWN		DOCUMENT NO.	
		APPRVD			
		CHECKED			