

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	18,5 KW	1474 RPM
K180M-4 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
92,1 EFFICIENCY	33,0 AMPS	55 IP	IC411 IC
4 POLE	S1 DUTY	0,836 PF	91,2 IE2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE	OHM	0,4316
NO LOAD CURRENT	AMP	15,03
NO LOAD INPUT	W	739,0
CORE LOSS(Pfe)	W	508,8
WINDAGE FRICTION LOSS(Pfw)	W	140,8
STATOR WINDING LOSS(Pcu1)	W	497,5
ROTOR WINDING LOSS(Pcu2)	W	331,2
STRAY LOAD LOSS(Ps)	W	101,4
FULL LOAD CURRENT	AMP	34,68
LOCKED ROTOR CURRENT	AMP	261,73
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	7,9
LOCKED ROTOR INPUT @ FULL LOAD	kW	80,06
FULL LOAD TORQUE	N.m	119,93
LOCKED ROTOR TORQUE	N.m	266,15
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2,22
PULL OUT TORQUE	N.m	350,0
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2,92
EFFICIENCY @ FULL LOAD	%	92,1
EFFICIENCY @ 75% LOAD	%	92,0
POWER FACTOR @ FULL LOAD		0,84
FULL LOAD SLIP	%	1,736
FULL LOAD SPEED	r/min	1474
STATOR WINDING TEMPERATURE RISE	K	54
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	52,0
SOUND POWER LEVEL	dB(A)	75
VIBRATION	mm/s	0,9

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

VALIADIS S.A. K180M-4 18,5 kW	SCALE	N/A		
	DATE		REV	
	DRAWN		DOCUMENT NO.	
	APPRVD			