

VALIADIS SA

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		250 KW		2985 RPM		
K355M-2 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
95.6 EFFICIENCY		410.8 AMPS		55 IP		IC411 IC		
2 POLE		S1 DUTY		0.919 PF		N/A EFF2		
Valiadis MANUFACTURER		SERIAL NO.		F INS.CLASS		DELTA CONNECTION		

TEST DATA								LOCKED
	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	ROTOR
EFFICIENCY	0	89.40	93.76	95.08	95.60	95.68	95.75	
PF	0.129	0.772	0.878	0.908	0.919	0.919	0.918	0.308
RPM	3000	2997	2993	2989	2985	2983	2980	0
SLIP	0.00%	0.10%	0.22%	0.35%	0.51%	0.57%	0.68%	100.00%
AMPS	76.64	130.67	219.17	313.61	410.77	451.38	513.33	2703.9
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	199.2	399.0	599.3	800.2	880.8	1002.0	1343.4
KW INPUT	6.827	69.91	133.32	197.21	261.52	287.42	326.38	577.53
KW OUTPUT	0	62.50	125.00	187.50	250.00	275.00	312.50	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.218	0.615	1.258	2.159	2.61	3.37
STATOR LOSS %	0.31%	0.46%	0.64%	0.83%	0.91%	1.03%
ROTOR LOSS Pcu2	0.067	0.285	0.680	1.291	1.61	2.16
ROTOR LOSS %	0.10%	0.21%	0.34%	0.49%	0.56%	0.66%
CORE LOSS Pfe	4.000	4.000	4.000	4.000	4.000	4.000
CORE LOSS %	5.72%	3.00%	2.03%	1.53%	1.39%	1.23%
WINDAGE/FRICTION Pfw	2.731	2.731	2.731	2.731	2.731	2.731
WINDAGE/FRICTION %	3.91%	2.05%	1.38%	1.04%	0.95%	0.84%
STRAY LOAD LOSS Ps	0.350	0.667	0.986	1.308	1.437	1.632
STRAY LOAD LOSS %	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%

Losses are measured/calculated as per IEC 34-2 - The Summation of Losses Method
All data is measured at Nominal Volts

TEMPERATURES

STATOR RESISTANCE COLD	0.0068767 OHMS @	27 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.009 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.008 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	58.5 DEG.C.	at full load steady state at	120 SECS
WINDING TEMPERATURE RISE	59.7 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	92.8 DEG.C.	at full load steady state at ambient	29 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.	at full load steady state at ambient	29 DEG.C.
PT100 TEMPERATURE DE BEARING	72.9 DEG.C.	at full load steady state at ambient	29 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	29 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	42.8 DEG.C.	at full load steady state at ambient	29 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	53.1 DEG.C.	at full load steady state at ambient	29 DEG.C.

OTHER

NOISE LEVEL(Lp)	90	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	3.1	mm/sec on no load	D.E. BEARING	6319	
WEIGHT	1758	kg	N.D.E.BEARING	6319	
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A. K355M-2 250 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			

RESULT SUMMARY

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2 POLE	S1 DUTY	0.919 PF	N/A EFF2
Valiadis MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	0.008530
NO LOAD CURRENT	AMP	76.64
NO LOAD INPUT	kW	6.827
CORE LOSS(Pfe)	kW	4.000
WINDAGE FRICTION LOSS(Pfw)	kW	2.731
STATOR WINDING LOSS(Pcu1)	kW	2.159
ROTOR WINDING LOSS(Pcu2)	kW	1.291
STRAY LOAD LOSS(Ps)	kW	1.308
FULL LOAD CURRENT	AMP	410.77
LOCKED ROTOR CURRENT	AMP	2703.95
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6.6
LOCKED ROTOR INPUT @ FULL LOAD	kW	577.53
FULL LOAD TORQUE	N.m	799.80
LOCKED ROTOR TORQUE	N.m	1789.40
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.20
PULL OUT TORQUE	N.m	2306.6
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.88
PULL UP TORQUE	N.m	1383.70
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	1.73
EFFICIENCY @ FULL LOAD	%	95.60
POWER FACTOR @ FULL LOAD		0.919
FULL LOAD SLIP	%	0.505
FULL LOAD SPEED	r/min	2985
STATOR WINDING TEMPERATURE RISE	120 SECS	K
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C
TEMPERATURE ON LEADS BY PT100		Deg. C
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C
AMBIENT TEMPERATURE OF TESTING		Deg. C
SOUND PRESSURE LEVEL		dB(A)
VIBRATION		mm/s
MOMENT OF INERTIA		kgm2
WEIGHT		kg

The data above is calculated as per IEC 34-2, all data at nominal Volts

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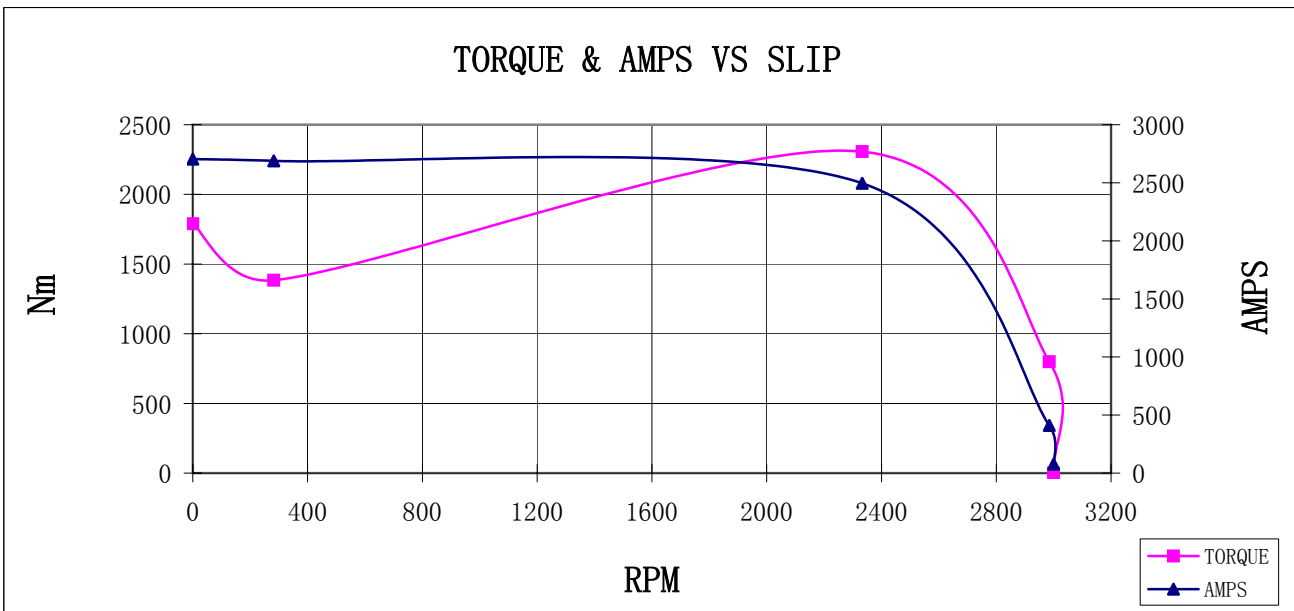
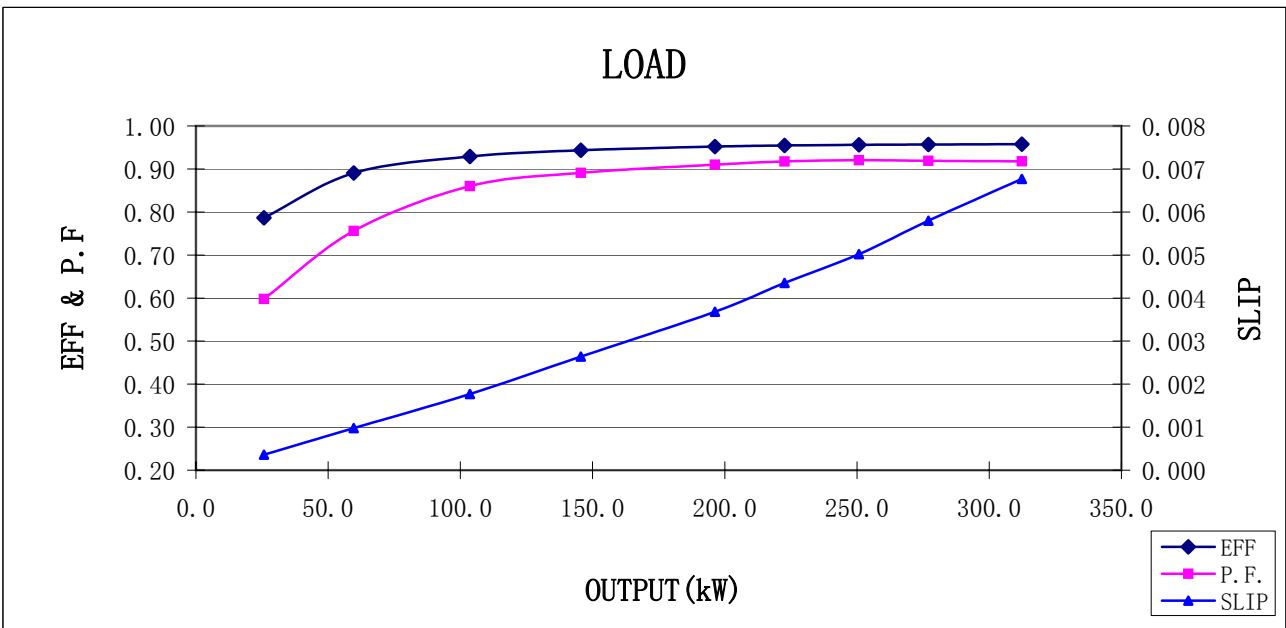
NAMEPLATE DATA

K355M-2 FRAME
 95.6 EFFICIENCY
 2 POLE
 Valiadis MANUFACTURER

IEC TYPE
 3 PHASE
 410.8 AMPS
 S1 DUTY
 SERIAL NO.

250 KW
 400 VOLTS
 55 IP
 0.919 PF
 F INS.CLASS

2985 RPM
 50 HZ / CYCLES
 IC411 IC
 N/A EFF2
 DELTA CONNECTION



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NAMEPLATE DATA

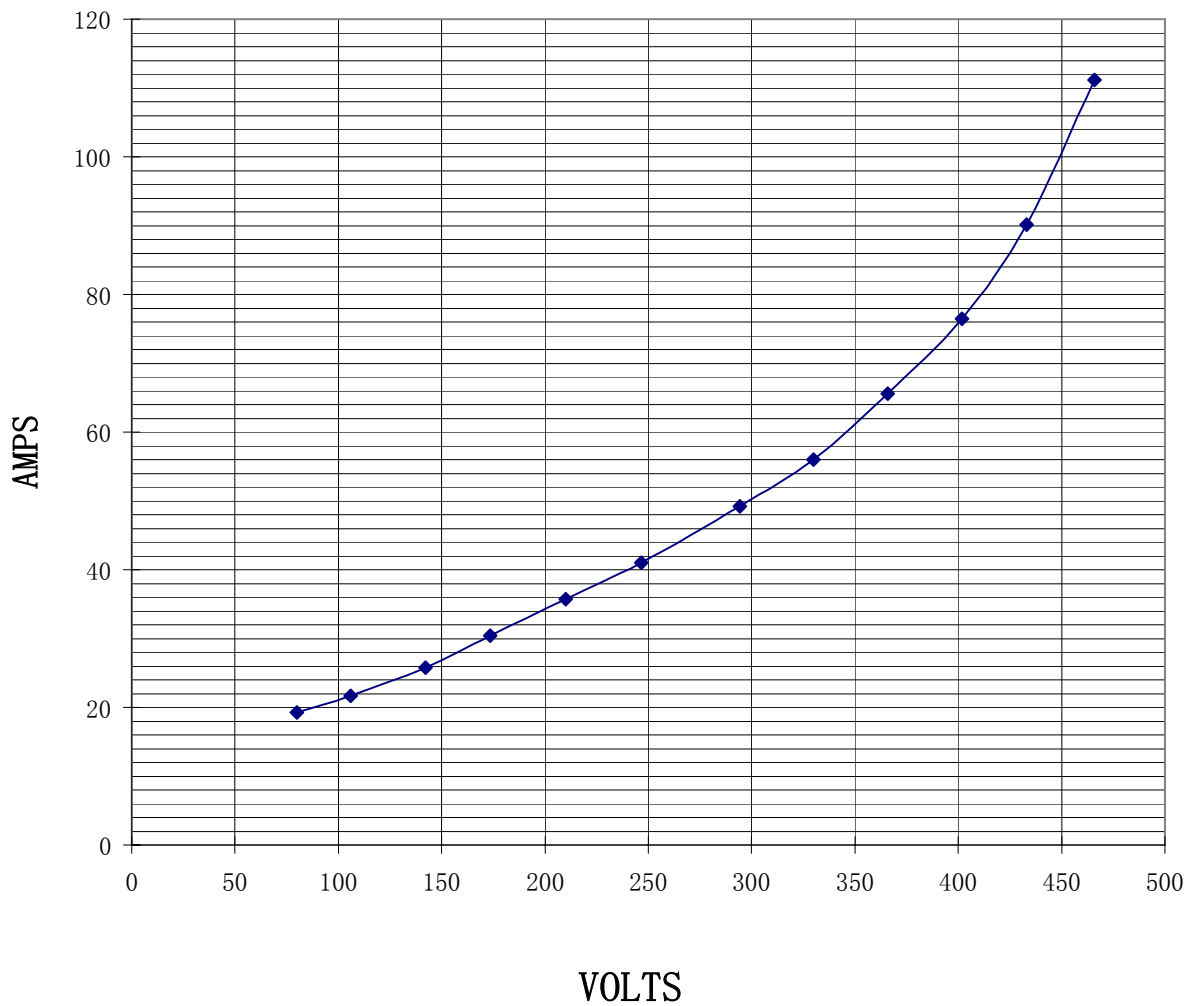
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 Valiadis **MANUFACTURER**

IEC **TYPE**
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250 **KW**
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 0.919 **PF**
F INS.CLASS

2985 **RPM**
 50 **HZ / CYCLES**
 IC411 **IC**
 N/A **EFF2**
 DELTA **CONNECTION**

MAGNETIZATION CURVE - NO LOAD



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