

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA			
K355LX-6 FRAME	IEC TYPE	355 kW	989 r/min
6 POLE	3 PHASE	400 VOLTS	50 Hz
VALIADIS MANUFACTURER	602,0 AMPS	IP55 IP	
	S1 DUTY	F INS.CLASS	△ CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE	OHM	0,00910
NO LOAD CURRENT	AMP	176,74
NO LOAD INPUT	W	5413,1
CORE LOSS(Pfe)	W	3849,1
WINDAGE FRICTION LOSS(Pfw)	W	1289,6
STATOR WINDING LOSS(Pcu1)	W	3430,1
ROTOR WINDING LOSS(Pcu2)	W	4659,4
STRAY LOAD LOSS(Ps)	W	1890,0
FULL LOAD CURRENT	AMP	608,34
LOCKED ROTOR CURRENT	AMP	3812,70
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6,30
FULL LOAD TORQUE	N.m	3433,99
LOCKED ROTOR TORQUE	N.m	6690,82
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	1,95
PULL OUT TORQUE	N.m	9304,98
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2,71
INPUT @ FULL LOAD	kW	370,12
EFFICIENCY @ FULL LOAD	%	95,92
POWER FACTOR @ FULL LOAD		0,88
FULL LOAD SLIP	%	1,284
FULL LOAD SPEED	r/min	987,2
STATOR WINDING TEMPERATURE RISE	K	72
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	39,0
AMBIENT TEMPERATURE OF TESTING	Deg. C	8,8
NOISE	dB(A)	98
VIBRATION	mm/s	1,7

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

	VALIADIS S.A.	SERIAL NO.			
		DATE		REV	
		DRAWN		DOCUMENT NO.	
		APPRVD			
		CHECKED			
400	K355LX-6 355 kW VOLTS 50 Hz				

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K355LX-6		Poles	6		Power	355,0 kW			
Voltage	400	V	Current	602	A	Frequency	50 Hz			
Speed	989	r/min	Duty	S1		Connection	△			
Ins.class	F		Weight	0	kg	IP55				
NO LOAD TEST										
VOL	mul.	Hz	I01	I02	I03	mul.	W1	W2	mul.	Ω
483,2	1	50	2,992	2,934	3,092	100	-534,8	635,2	100	0,005854
436,3	1	50	2,123	2,096	2,216	100	-339,8	406,6	100	0,005856
400,1	1	50	1,744	1,730	1,829	100	-254,1	308,2	100	0,005858
358,0	1	50	1,466	1,475	1,546	100	-191,0	235,9	100	0,005858
316,6	1	50	2,522	2,552	2,666	50	-289,8	363,0	50	0,005858
270,8	1	50	2,119	2,160	2,245	50	-205,3	266,4	50	0,005858
223,3	1	50	1,724	1,767	1,827	50	-134,3	184,1	50	0,005858
190,7	1	50	1,470	1,510	1,558	50	-93,7	138,0	50	0,005858
147,0	1	50	2,860	2,963	3,020	20	-131,0	220,4	20	0,005858
103,2	1	50	2,065	2,131	2,170	20	-48,6	126,9	20	0,005858
60,5	1	50	1,410	1,447	1,478	20	5,5	64,2	20	0,005858
VALIADIS S.A.						Manufacturing Date		Serial No		
						Test Date		Report Number		

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K355LX-6		Poles	6		Power	355,0		kW
Voltage	400	V	Current	602	A	Frequency	50,0		Hz
Speed	989	r/min	Duty	S1		Connection	△		
Ins.class	F		Weight	0	kg	IP55			
LOCKED ROTOR TEST									
VOL	mul.	Ik1	Ik2	Ik3	mul.	W1	W2	mul.	Torqur N.m
154,3	1,0	3,228	3,208	3,179	400,0	357,1	-112,8	400	756,47
138,1	1,0	2,794	2,811	2,823	400,0	284,3	-94,7	400	588,13
118,1	1,0	2,363	2,381	2,389	400,0	205,4	-69,7	400	420,81
88,7	1,0	1,742	1,752	1,757	400,0	113,0	-38,4	400	230,76
72,6	1,0	1,421	1,402	1,453	400,0	73,1	-23,3	400	154,14
58,2	1,0	2,261	2,276	2,282	200,0	96,1	-32,9	200	97,75
VALIADIS S.A.						Manufacturing Date		Serial No	
						Test Date		Report Number	

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K355LX-6			Poles	6			Power	355 kW		
Voltage	400 V			Current	602 A			Frequency	50 Hz		
Speed	989 r/min			Duty	S1			Connection	Δ		
Ins.class	F			Weight	0 kg				IP55		

TEMPERATURE RISE TEST																					
TIME (h:min)	V	I1	I2	I3	mul.	W1	W2	mul.	T1 °C	T2 °C	T3 °C	T4 °C	T5 °C	T6 °C	T7 °C	T8 °C	T9 °C	T10 °C	T11 °C	T12 °C	T13 °C
17:30	399,3	1,514	1,498	1,520	400	310,6	592,4	400	42,8	—	83,3	85,3	—	—	—	—	—	—	—	—	8,8
18:00	401,2	1,505	1,491	1,512	400	310,3	592,9	400	42,4	—	80,9	83,1	—	—	—	—	—	—	—	—	8,8
18:30	400,4	1,514	1,499	1,523	400	312,4	594,7	400	42,8	—	81,8	83,8	—	—	—	—	—	—	—	—	8,9
19:00	401,0	1,502	1,485	1,511	400	310,7	590,2	400	41,4	—	82,4	84,2	—	—	—	—	—	—	—	—	8,9
19:30	400,5	1,514	1,493	1,519	400	312,9	591,6	400	40,4	—	83,1	84,8	—	—	—	—	—	—	—	—	8,8
20:00	400,0	1,505	1,486	1,512	400	311,6	588,3	400	39,0	—	83,3	85,0	—	—	—	—	—	—	—	—	8,8
Last three points average	601,150 A					360706,7 W			39,0	—	82,9	84,7	—	—	—	—	—	—	—	—	8,8

T1 T2 : DE BEARING TEMPERATURE
T3~T10 : DE WINDING TEMPERATURE

T11 : CORE TEMPERATRE
T13 : AMBIENT TEMPERATURE

T12: FRAME TEMPERATRE

WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST								
TIME (S)	69	86	109	136	169	198	237	275
RESISTANCE	0,005767	0,005762	0,005758	0,005753	0,005749	0,005745	0,005741	0,005738

WINDING RESISTANCE(COLD)						
Δ	U1-V1	U1-W1	V1-W1	AVERAGE	MIN	AMBIENT TEM.
	0,004472	0,004498	0,004463	0,00448	0,00446	8,6 °C
Y	U1-U2	V1-V2	W1-W2	AVERAGE	MIN	AMBIENT TEM.
	0	0	0	0,000	0	0 °C

VALIADIS S.A.

Manu. Date

Serial No

Test Date

Report Number

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

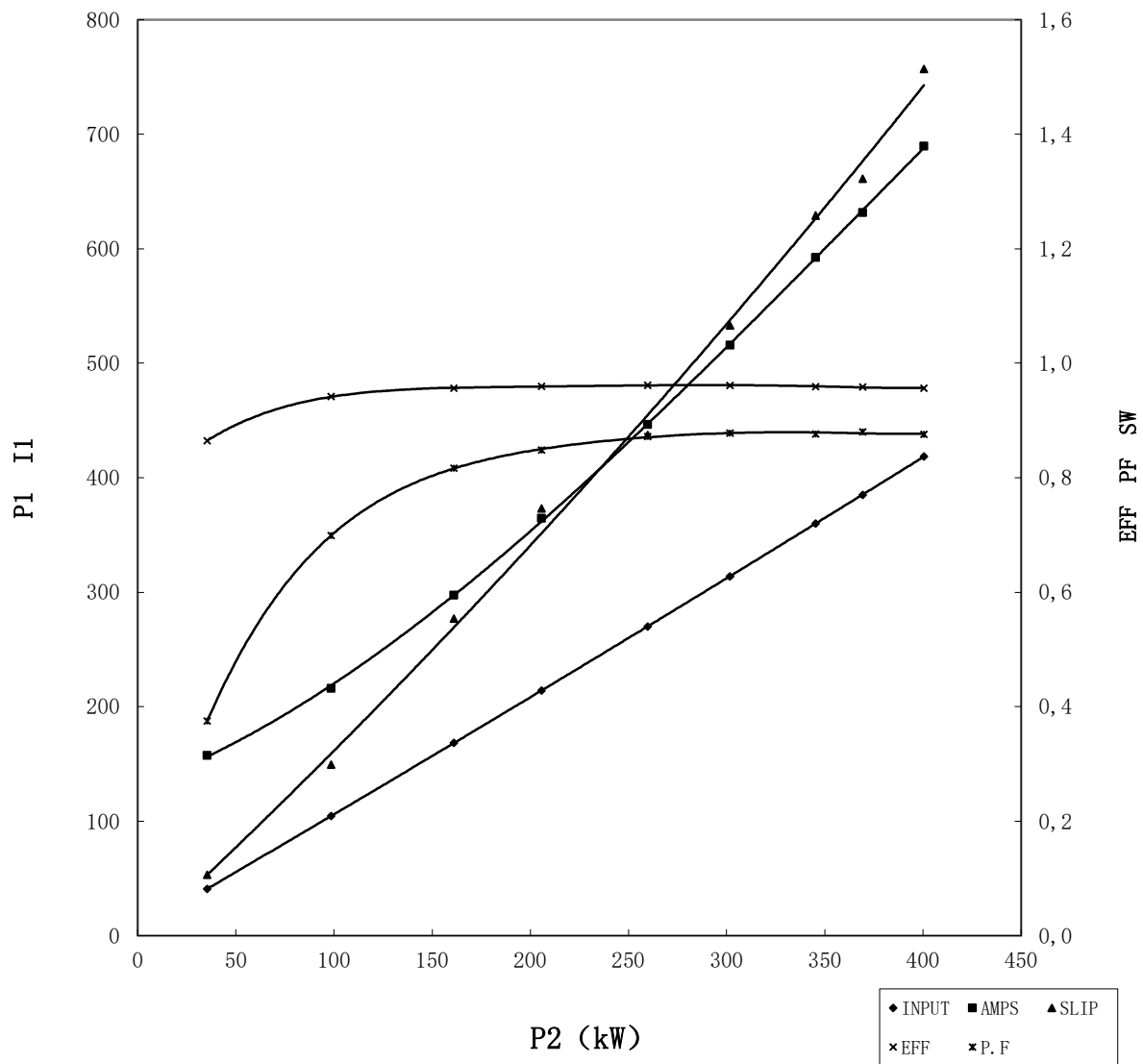
Type	K355LX-6		Poles	6		output Power		355,0	kW
Voltage	400	V	Current	602	A	Frequency		50,0	Hz
Speed	989	r/min	Duty	S1		Connection		△	
Ins.class	F		Weight	0	kg	IP55			
LOAD TEST									
V	Hz	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (unit)	mul.	r/min
400,1	50,00	1,725	1,711	1,736	400	357,0	689,6	400	985,8
400,0	50,00	1,582	1,566	1,590	400	331,6	631,3	400	987,6
400,0	50,00	1,484	1,468	1,492	400	311,2	588,7	400	988,2
400,1	50,00	1,293	1,276	1,300	400	271,2	513,4	400	990,0
400,0	50,00	2,240	2,206	2,254	200	461,0	888,8	200	991,8
400,0	50,00	1,832	1,795	1,842	200	354,7	716,6	200	993,0
400,0	50,00	1,495	1,458	1,508	200	256,3	585,3	200	994,8
400,0	50,00	2,173	2,105	2,205	100	237,5	809,0	100	997,2
400,1	50,00	1,564	1,530	1,630	100	-65,1	474,8	100	999,0
% LOAD	OUTPUT	INPUT	AMPS	Pcu1	SLIP	Pcu2	Ps	EFF	P.F.
	W	W	A	W	%	W	W	%	
125	443750	465470,2	770,006	5495,5	1,781	8117,8	2968,2	95,33	0,873
100	355000	370118,1	608,335	3430,1	1,284	4659,4	1890,0	95,92	0,878
75	266250	276853,0	457,571	1940,6	0,905	2452,3	1071,4	96,17	0,873
50	177500	185264,8	322,219	962,3	0,625	1128,8	535,1	95,81	0,830
25	88750	94734,0	206,999	397,2	0,269	243,3	204,8	93,68	0,661
VALIADIS S.A.					Manufacturing Date		Serial No		
					Test Date		Report Number		

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K355LX-6		Poles	6	output Power	355,0	kW
Voltage	400	V	Current	602	A	Frequency	50,0 Hz
Speed	989	r/min	Duty	S1	Connection	△	
Ins.class	F		Weight	0	kg	IP55	

Load Curve



VALIADIS S.A.

Manu. Date

Serial No

Test Date

Report Number