

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA				
K315L-8 FRAME	IEC TYPE	110 kW	739 r/min	
8 POLE	3 PHASE	400 VOLTS	50 Hz	
VALIADIS MANUFACTURER	205,0 AMPS	IP55 IP		
	S1 DUTY	F INS.CLASS	Δ CONNECTION	
MAJOR CONTENTS		UNIT	TEST VALUE	
STATOR RESISTANCE OF PHASE		OHM	0,04360	
NO LOAD CURRENT		AMP	75,26	
NO LOAD INPUT		W	2980,9	
CORE LOSS(Pfe)		W	2214,3	
WINDAGE FRICTION LOSS(Pfw)		W	542,5	
STATOR WINDING LOSS(Pcu1)		W	1717,8	
ROTOR WINDING LOSS(Pcu2)		W	1841,4	
STRAY LOAD LOSS(Ps)		W	964,1	
FULL LOAD CURRENT		AMP	204,73	
LOCKED ROTOR CURRENT		AMP	1217,39	
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	5,94	
FULL LOAD TORQUE		N.m	1423,65	
LOCKED ROTOR TORQUE		N.m	2546,63	
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	1,79	
PULL OUT TORQUE		N.m	3639,41	
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	2,56	
INPUT @ FULL LOAD		kW	117,29	
EFFICIENCY @ FULL LOAD		%	93,79	
POWER FACTOR @ FULL LOAD			0,827	
FULL LOAD SLIP		%	1,624	
FULL LOAD SPEED		r/min	737,8	
STATOR WINDING TEMPERATURE RISE		K	65	
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	60,7	
AMBIENT TEMPERATURE OF TESTING		Deg. C	17,3	
NOISE		dB(A)	79	
VIBRATION		mm/s	1,3	
The data above is calculated as per IEC 34-2,all data at nominal Volts.				
VALIADIS S.A. K315L-8 110 kW 400 VOLTS 50 Hz		SERIAL NO.		
		DATE		REV
		DRAWN		DOCUMENT NO.
		APPRVD		
		CHECKED		

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Type	K315L-8	Poles	8	Power	110,0 kW
Voltage	400 V	Current	205 A	Frequency	50 Hz
Speed	739 r/min	Duty	S1	Connection	Δ
Ins.class	F				IP55

NO LOAD TEST

VOL	mul.	HZ	I01	I02	I03	mul.	W1	W2	mul.	Ω
475,8	1	50	2,561	2,581	2,606	50	-572,4	710,3	50	0,027
439,1	1	50	1,927	1,935	1,955	50	-401,5	488,1	50	0,026
399,1	1	50	1,492	1,495	1,509	50	-283,5	342,8	50	0,026
353,4	1	50	3,028	3,025	3,056	20	-507,8	617,8	20	0,026
311,3	1	50	2,567	2,567	2,583	20	-376,5	465,7	20	0,026
246,5	1	50	1,966	1,959	1,973	20	-221,0	288,3	20	0,026
199,8	1	50	1,565	1,559	1,573	20	-136,6	190,8	20	0,026
166,8	1	50	2,624	2,607	2,644	10	-185,5	270,4	10	0,026
132,9	1	50	2,092	2,073	2,095	10	-104,2	184,0	10	0,026
85,7	1	50	1,410	1,398	1,428	10	-27,6	91,6	10	0,026

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Ins.class	F				IP55	

LOCKED ROTOR TEST

VOL	mul.	lk1	lk2	lk3	mul.	W1	W2	mul.	Torqur N.m
258,9	1,0	3,483	3,487	3,525	200,0	-205,1	661,8	200	841,24
233,4	1,0	3,047	3,058	3,088	200,0	-166,2	517,5	200	652,74
204,9	1,0	2,584	2,590	2,615	200,0	-130,1	381,9	200	477,80
173,6	1,0	2,109	2,112	2,134	200,0	-93,2	260,3	200	316,43
146,0	1,0	3,443	3,450	3,482	100,0	-130,9	355,1	100	212,25
127,2	1,0	2,950	2,958	2,986	100,0	-98,7	263,6	100	156,52
105,2	1,0	2,412	2,414	2,439	100,0	-67,7	177,6	100	104,19
74,8	1,0	1,697	1,698	1,714	100,0	-33,7	88,5	100	54,76

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Speed	739	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	
11:01	400,2	2,051	2,054	2,075	100	356,7	812,4	100	46,8	—	82,2	—	—	—	—	—	—	—	—	—	—	18,6
11:30	400,2	2,032	2,035	2,055	100	353,9	804,7	100	50,0	—	84,8	—	—	—	—	—	—	—	—	—	—	19,3
12:00	400,3	2,030	2,033	2,054	100	355,3	804,8	100	53,1	—	86,9	—	—	—	—	—	—	—	—	—	—	19,5
12:30	400,2	2,061	2,065	2,086	100	364,6	817,1	100	55,2	—	88,2	—	—	—	—	—	—	—	—	—	—	18,4
13:00	400,2	2,066	2,072	2,094	100	369,3	820,6	100	57,1	—	88,9	—	—	—	—	—	—	—	—	—	—	17,7
13:30	400,2	2,052	2,058	2,078	100	366,3	814,7	100	58,6	—	90,1	—	—	—	—	—	—	—	—	—	—	17,3
14:01	400,2	2,053	2,055	2,075	100	365,4	813,6	100	60,2	—	90,7	—	—	—	—	—	—	—	—	—	—	17,4
14:29	400,3	2,040	2,046	2,066	100	365,0	810,1	100	60,7	—	91,0	—	—	—	—	—	—	—	—	—	—	17,3
Average of last three points		205,811			A	117836,7		W	60,7	—	91,0	—	—	—	—	—	—	—	—	—	—	17,3

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)	41	63	94	114	138	160	181	217
RESISTANC	0,02658	0,02652	0,02644	0,02640	0,02634	0,02630	0,02625	0,02619

WINDING RESISTANCE(COLD)

Δ	U1-V1	U1-W1	V1-W1	AVERAGE	MIN	AMBIENT TEM.
	0,02100	0,02098	0,02101	0,02100	0,02098	17,8 °C
Y	U1-U2	V1-V2	W1-W2	AVERAGE	MIN	AMBIENT TEM.
						°C

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Speed	739 r/min	Duty	S1	Connection	Δ	
Ins.class	F				IP55	

LOAD TEST

V	HZ	I1	I2	I3	mul.	W1	W2	mul.	r/min	Temperature °C	Torqure N.m
399,9	50,00	2,484	2,489	2,513	100	454,3	988,0	100	734,7	93,7	1747,0
400,1	50,00	2,292	2,297	2,320	100	418,0	911,7	100	736,11	93,6	1610,7
400,3	50,00	2,026	2,029	2,049	100	360,6	804,3	100	738,1	93,5	1411,6
400,3	50,00	1,603	1,605	1,620	100	257,7	633,9	100	741,2	93,3	1076,6
400,1	49,99	2,340	2,346	2,366	50	252,1	900,7	50	744,3	93,1	685,4
400,1	50,00	1,940	1,946	1,963	50	102,8	710,9	50	746,2	92,7	473,4
400,4	50,00	1,771	1,778	1,794	50	19,9	616,1	50	747	92,6	362,7

Final Resistance of load : 0,00000 Ω ambient temperature 0,0 °C

LOAD %	P2 W	I A	P1 W	Pcu1s W	Ss %	Pcu2s W	Ps W	Pz W	EFF %	P.F
150,0	165000	316,8	180833,9	4114,1	2,701	4713,5	2238,2	13822,5	92,27	0,824
125,0	137500	255,0	147460,7	2664,9	2,130	3036,8	1527,2	9985,6	93,23	0,835
100,0	110000	204,7	117286,1	1717,8	1,624	1841,4	964,1	7280,1	93,79	0,827
75,0	82500	159,1	87836,6	1037,8	1,170	989,9	533,2	5317,6	93,94	0,797
50,0	55000	119,4	59023,6	584,6	0,768	432,1	233,7	4007,1	93,21	0,713
25,0	27500	88,0	30741,7	317,6	0,396	111,8	59,1	3245,25	89,44	0,504

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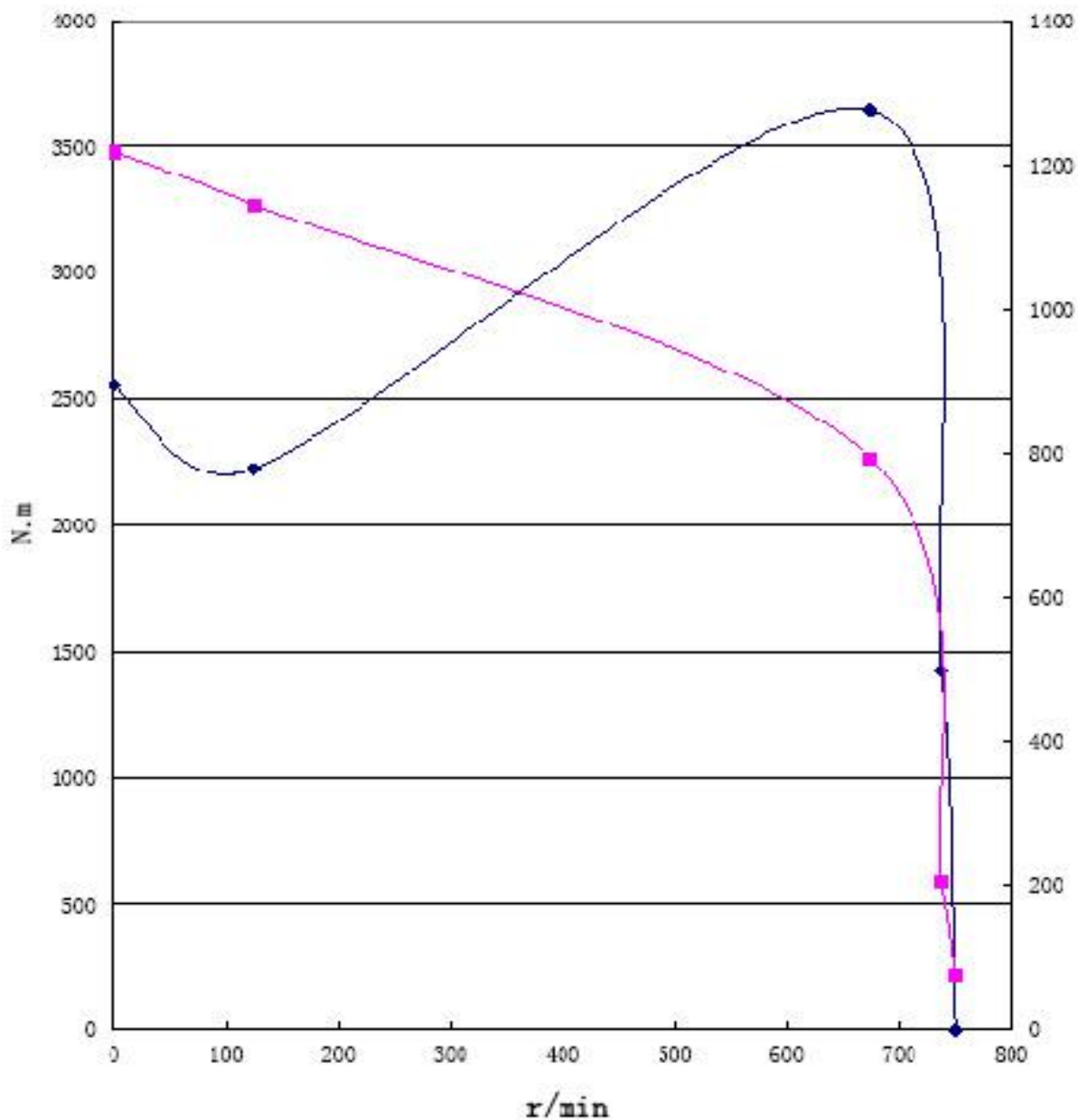
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TORQUE VS SPEED



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LOAD CURVE

