

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

<b>NAMEPLATE DATA</b>	8	<b>POLE</b>	50	<b>HZ / CYC</b>	250 KW
K355L-8(HL) <b>FRAME</b>	3	<b>PHASE</b>	F	<b>INS.CLASS</b>	
400 <b>VOLTS</b>	467,0	<b>AMPS</b>	$\Delta$	<b>CONNECTION</b>	
740 <b>RPM</b>	S1	<b>DUTY</b>			
MAJOR CONTENTS	UNIT	TEST VALUE	STANDARD VALUE		
(95°C ) PHASE RESISTANCE OF WINDING	OHM	0,01336			
NO LOAD CURRENT	AMP	166,480			
NO LOAD INPUT	W	5626,6			
CORE LOSS(Pfe)	W	4566,5			
WINDAGE FRICTION LOSS(Pfw)	W	754,1			
STATOR WINDING LOSS(Pcu1)	W	2895,5			
ROTOR WINDING LOSS(Pcu2)	W	3076,5			
STRAY LOAD LOSS(Ps)	W	1305,1			
LOCKED ROTOR CURRENT	A	2100,1			
LOCKED ROTOR INPUT @ FULL LOAD	kW	457,3			
LOCKED ROTOR TORQUE	N.m	4738,0			
PULL OUT TORQUE	N.m	7526,0			
LOCKED ROTOR CURRENT/RATED CURRENT	P.U.	4,50			
LOCKED ROTOR TORQUE/RATED TORQUE	P.U.	1,47			
PULL OUT TORQUE/RATED TORQUE	P.U.	2,33			
FULL LOAD TORQUE	N.m	3223,9			
FULL LOAD CURRENT	A	465,588			
FULL LOAD SLIP	%	1,206			
INPUT @ FULL LOAD	KW	262,603			
FULL LOAD SPEED	r/min	741			
EFFICIENCY @ FULL LOAD	%	95,2			
POWER FACTOR @ FULL LOAD		0,81			
STATOR WINDING TEMPERATURE RISE	K	68			
D.E. BEARINGS TEMPERATURE BY PT100	°C	62,4			
NOISE(Lw)	dB(A)	93			
VIBRATION	mm/s	2,2			
<b>VALIDADIS S.A.</b>		Manufacturing Date	Manufacturing Code		
		Test Date	Report Number		

TOTAL

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K355L-8(HL) <b>FRAME</b>		3	<b>PHASE</b>	F	<b>INS.CLASS</b>	0,00 EFF2				
400	<b>VOLTS</b>	467,0	<b>AMPS</b>	Δ	<b>CONNECTION</b>					
740	<b>RPM</b>	S1	<b>DUTY</b>		0,000	<b>STANDARD</b>				
<b>NO LOAD TEST</b>										
V ( unit )	mul.	HZ	A1 ( unit )	A2 ( unit )	A3 ( unit )	mul.	W1 ( unit )	W2 ( uni t )	mul.	RESISTANCE ( Ω )
526,2	1	50	2,513	2,647	2,637	100	-378,3	485,2	100	0,007359
462,3	1	50	1,937	2,039	2,017	100	-256,2	332,3	100	0,007359
389,8	1	50	3,122	3,316	3,256	50	-349,9	457,0	50	0,007359
316,4	1	50	2,482	2,615	2,552	50	-222,9	300,1	50	0,007359
259,4	1	50	2,024	2,132	2,073	50	-146,7	204,5	50	0,007359
214,6	1	50	4,211	4,457	4,336	20	-245,9	359,4	20	0,007356
153,1	1	50	3,022	3,181	3,089	20	-116,7	193,8	20	0,007353
98,4	1	50	2,012	2,120	2,057	20	-38,0	94,5	20	0,007353
64,6	1	50	2,878	3,045	2,955	10	-17,2	103,9	10	0,007348
<b>data calculation of no load</b>										
<b>V%</b>	<b>U0/UN</b>	<b>I0</b>	<b>P0</b>	<b>(U0/UN)^2</b>	<b>P0cu1</b>	<b>P0'</b>				
131,5%	1,32	259,931	10688,0	1,730	745,79	9942,19				
115,6%	1,16	199,775	7609,7	1,336	440,54	7169,14				
97,4%	0,97	161,571	5354,5	0,950	288,15	5066,40				
79,1%	0,79	127,484	3861,4	0,626	179,39	3682,02				
64,8%	0,65	103,814	2890,4	0,420	118,96	2771,40				
53,6%	0,54	86,695	2269,6	0,288	82,93	2186,67				
38,3%	0,38	61,945	1541,7	0,146	42,32	1499,37				
24,6%	0,25	41,264	1130,3	0,061	18,78	1111,53				
16,1%	0,16	29,593	867,1	0,026	9,65	857,47				
<b>RESULTS AT:</b>		<b>400</b>	<b>Volts</b>							
<b>N.L.AMP</b>	<b>N.L.LOSS</b>		<b>WINDAGE/FRICTION Pfw</b>			<b>CORE LOSS Pfe</b>				
166,480	5626,64		754,1			4566,5				
<b>VALIADIS S.A.</b>			Manufacturing Date			Manufacturing Code				
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K355L-8(HL) <b>FRAME</b>		3	<b>PHASE</b>	F	<b>INS.CLASS</b>	0,00 EFF2			
400	<b>VOLTS</b>	467,0	<b>AMPS</b>	Δ	<b>CONNECTION</b>				
740	<b>RPM</b>	S1	<b>DUTY</b>		0,000	<b>STANDARD</b>			
LOCKED ROTOR TEST									
V ( unit )	mul.	A1 ( unit )	A2 ( unit )	A3 ( unit )	mul.	W1 ( unit )	W2 ( unit )	mul.	resistance Ω
202,1	1	2,532	2,547	2,553	400	-89,7	361,2	400	0,006681
176,0	1	2,182	2,197	2,202	400	-67,9	270,4	400	0,006673
162,9	1	2,013	2,025	2,028	400	-58,5	230,7	400	0,006671
150,4	1	1,851	1,863	1,864	400	-49,7	195,5	400	0,006668
129,3	1	1,583	1,594	1,595	400	-36,5	143,8	400	0,006665
102,0	1	1,244	1,253	1,253	400	-22,5	89,3	400	0,006660
91,6	1	1,118	1,127	1,125	400	-18,0	72,0	400	0,006660
76,4	1	0,932	0,940	0,938	400	-12,3	51,0	400	0,006660
data calculation of locked rotor									
UK V	IK A	PK KW	TK N.m	LOG UK	LOG IK	LOGPK	LOG TK		
202,1	1017,48	108,584	1112,14	2,3055	3,0075	2,0358	3,0462		
176,0	877,54	81,013	830,17	2,2454	2,9433	1,9086	2,9192		
162,9	808,75	68,877	705,92	2,2120	2,9078	1,8381	2,8488		
150,4	743,73	58,313	597,76	2,1772	2,8714	1,7658	2,7765		
129,3	636,30	42,905	440,10	2,1114	2,8037	1,6325	2,6436		
102,0	500,12	26,707	274,22	2,0084	2,6991	1,4266	2,4381		
91,6	449,37	21,611	221,95	1,9620	2,6526	1,3347	2,3463		
76,4	374,64	15,476	159,48	1,8832	2,5736	1,1896	2,2027		
performance collection of locked rotor									
	<b>at rated volts</b>		<b>at rated current</b>		<b>at 2.5 times rated current</b>		<b>at 100V</b>		
<b>VOLTS ( V )</b>	400		95,176		229,9		100,0		
<b>AMPS ( A )</b>	2100,1		467,0		1167,50		491,308		
<b>INPUT ( KW )</b>	457,277		23,501		142,6		25,958		
<b>TORQUE ( N.m)</b>	4737,957		241,549						
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LOCKED DATA



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K355L-8(HL) <b>FRAME</b>	3	<b>PHASE</b>	F	<b>INS.CLASS</b>	0,00 EFF2
400 <b>VOLTS</b>	467,0	<b>AMPS</b>	Δ	<b>CONNECTION</b>	
740 <b>RPM</b>	S1	<b>DUTY</b>		0,000	<b>STANDARD</b>

### LOAD TEST

V	HZ	A1 ( unit )	A2 ( unit )	A3 ( unit )	mul.	W1 ( unit )	W2 ( unit )	mul.	RPM
400,20	50	2,866	2,905	2,933	200	492,3	1164,2	200	738,5
400,32	50	2,579	2,620	2,646	200	439,1	1049,4	200	740,2
400,05	50	2,306	2,343	2,368	200	382,4	937,8	200	741,5
400,03	50	2,024	2,060	2,086	200	317,1	820,9	200	743,1
400,14	50	1,784	1,820	1,842	200	255,5	720,3	200	744,1
399,88	50	1,504	1,538	1,555	200	175,0	599,1	200	745,8
400,12	50	2,380	2,460	2,479	100	115,6	902,3	100	747,6
399,89	50	1,895	1,979	1,977	100	-142,0	591,2	100	749,1

% LOAD	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P.F.
<b>125</b>	312500	329509,7	577,25	4451,0	1,63	5224,7	2006,20	94,84	0,824
<b>110</b>	275000	289168,5	508,99	3460,5	1,35	3805,0	1559,76	95,10	0,820
<b>100</b>	250000	262603,2	465,59	2895,5	1,206	3076,5	1305,10	95,20	0,814
<b>75</b>	187500	197041,8	365,9	1788,3	0,851	1621,9	806,04	95,16	0,777
<b>50</b>	125000	132518,6	280,17	1048,5	0,493	625,6	472,60	94,33	0,683
<b>25</b>	62500	68903,0	215,65	621,2	0,220	140,3	279,99	90,71	0,461

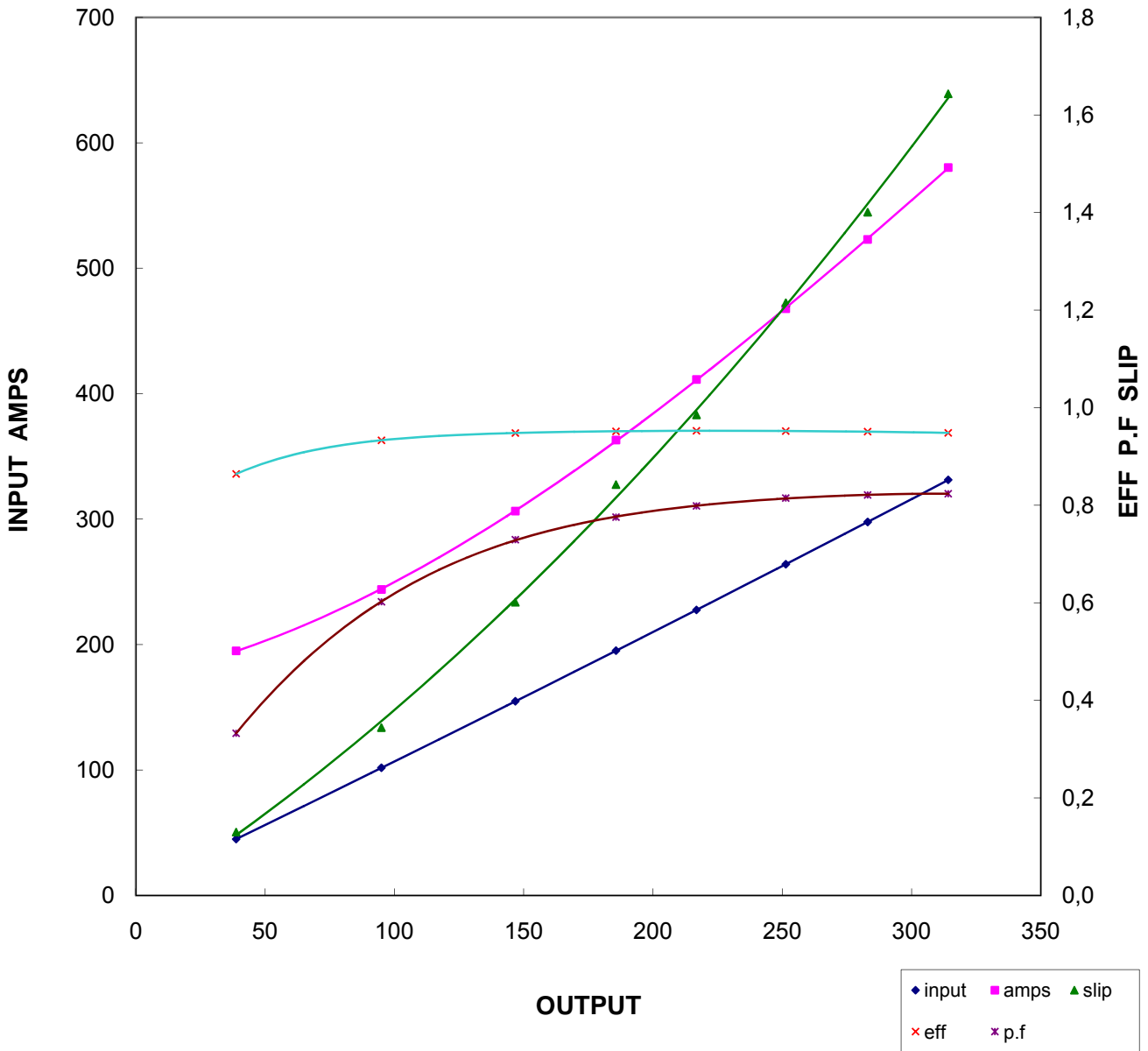
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	Test Date	Report Number

LOAD DATA

# ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	8	POLE	50	HZ / CYCLES	250,0 KW
K355L-8(HL) FRAME	3	PHASE	F	INS.CLASS	0,00 EFF2
400 VOLTS	467,0	AMPS	Δ	CONNECTION	
740 RPM	S1	DUTY		0,000	STANDARD

## LOAD CURVE



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