



ESTABLISHED 1927

VALIADIS**HELLENIC MOTORS**Quality Assurance Certificate EN ISO 9001:2015
Certificate Reg. No. 041130055**Type Test Report three phase squirrel-cage motors****Winding calc card**

Type : K 355LX-6	Motor No. :
Output : 355 kW	Duty type : S1
Voltage : 400 V	Conn. : Δ
Current : 624.5 A	Speed : 990 rpm
	Frequency : 50 Hz
	Eff. : 95.4 %
	Cos ϕ : 0.86

Statorwinding resistance measurement (cold)

Connection : Δ	R_{u1-v1} : 0.004919 Ω
Winding temp: 24.6 $^{\circ}$ C	R_{v1-w1} : 0.004919 Ω R_{av} = 0.0049190 Ω
Room temp: 24.6 $^{\circ}$ C	R_{w1-u1} : 0.004919 Ω

No-load test R_{begin} = 0.005878 Ω R_{end} = 0.005870 Ω

				Losses		
U_o	I_o	P_o	cos ϕ_o	V_{cu1}	V_{fe}	V_w
V	A	W		W	W	W
473	406.83	16811	0.050	1457	13080	2274
438	302.32	11903	0.052	805	8824	2274
400	214.95	7895	0.053	407	5214	2274
358	174.30	5899	0.055	268	3357	2274
310	144.42	4841	0.062	184	2383	2274
253	111.73	4051	0.083	110	1667	2274
179	76.05	3168	0.134	51	843	2274
127	54.12	2677	0.225	26	377	2274

Sound pressure level in dB (A) (at 1 m): 83.6

Vibration level (mm/s): x = 1.4 y = 1.6 z = 1.3

Temperature rise testVoltage : 400 V, Frequency : 50 Hz, Current : 630.0 A, connection : Δ

According to IEC 34-1	Time	Room temp. $^{\circ}$ C	R_{wdg} Ω	Wdg. temp. by R_{wdg}	Wdg. temp. rise(K)	Temperature ($^{\circ}$ C)with ETD*			
						Wdg.	Bearing DE	Bearing NDE	Frame
Begin	17:40	24.6	0.004919	24.6					24.6
	21:00	24.3							88.2
	21:30	24.0							88.4
End	22:00	23.8	0.006118	87.9	64.1		49.5	46.0	88.5

* ETD= embedded temperature detector



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Load test

Frequency: 50 Hz

 $T_{wdg,begin} = 86.0 \text{ }^{\circ}\text{C}$ $T_{wdg,end} = 85.7 \text{ }^{\circ}\text{C}$ Connection: Δ $R_{begin} = 0.006082 \text{ } \Omega$ $R_{end} = 0.006076 \text{ } \Omega$

P2	U	I	P1	cos ϕ	n	s	Vfe	Vcu1	Ve	Vcu2	Vw	Vv	P2	n
Approx. %	V	A	kW		Min ₁	%	W	W	W	W	W	W	kW	%
25	400	239.7	97.056	0.584	997.5	0.25	5214	539	53	226	2274	8306	88.750	91.44
50	400	354.1	187.488	0.764	995.9	0.41	5214	1176	576	748	2274	9988	177.500	94.67
75	400	481.7	278.938	0.836	994.0	0.60	5214	2176	1398	1626	2274	12688	266.250	95.45
100	400	623.1	371.710	0.861	991.8	0.82	5214	3641	2601	2980	2274	16710	355.000	95.50
125	400	778.9	466.207	0.864	989.0	1.10	5214	5690	4284	4995	2274	22457	443.750	95.18
150	400	949.8	562.931	0.855	985.6	1.44	5214	8461	6560	7922	2274	30431	532.500	94.59

 $T_s/T_n = 2.33$ $I_s/I_n = 7.26$

Locked rotor test

U	I	P1	cos ϕ	T
V	A	kW		Nm
400	4531.9	1251.501	0.399	7982
350	3904.3	928.471	0.392	5923
300	3286.3	658.074	0.385	4197
250	2680.4	437.972	0.377	2792
200	2089.4	265.828	0.367	1696
100	963.1	56.064	0.336	379



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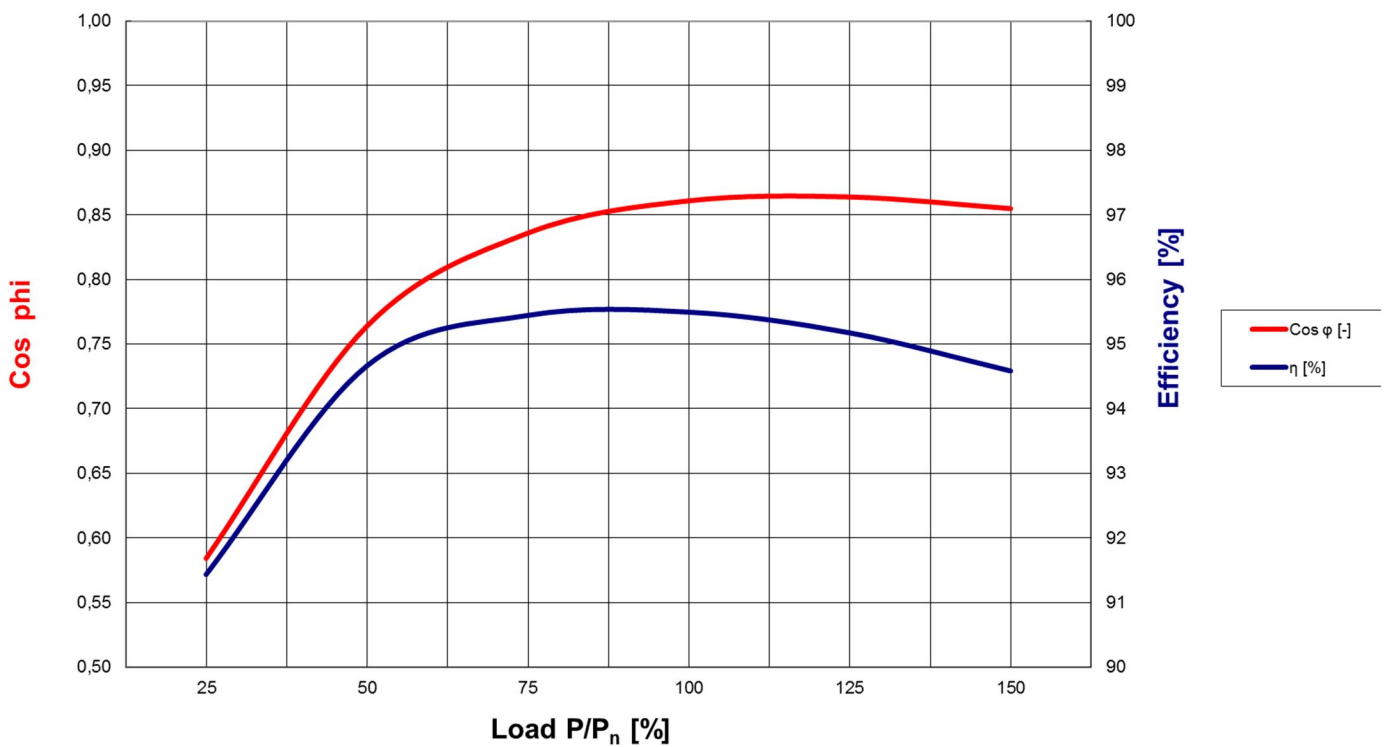
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Current : 624.5 A	Speed : 990 rpm	Eff. : 95.4 %	





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Type : K 355LX-6

Voltage : 400 V

Current : 624.5 A

Output : 355 kW

Conn. : Δ

Speed : 990 rpm

Motor No. :

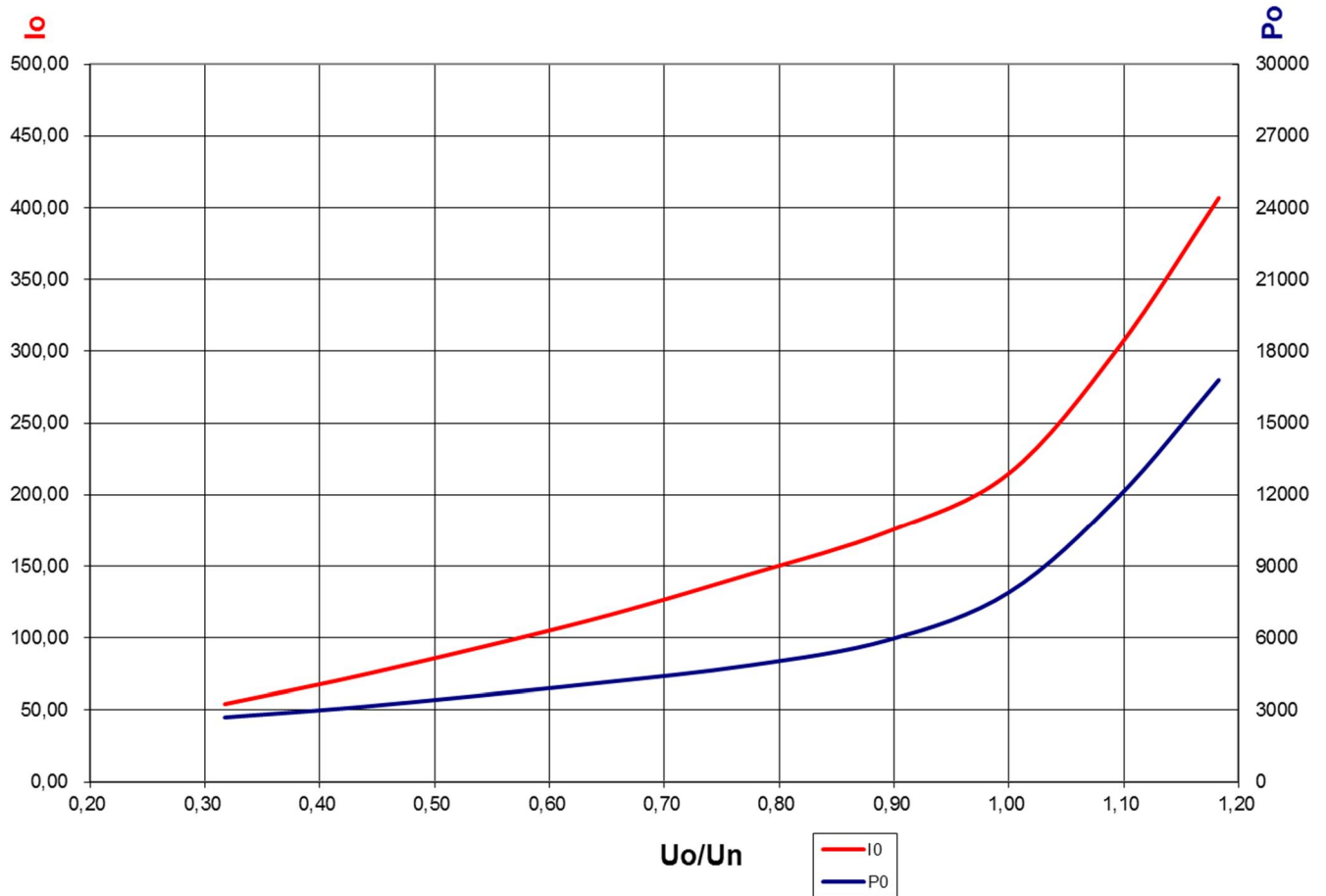
Duty type : S1

Frequency : 50 Hz

Eff. : 95.4 %

Cos ϕ : 0.86

No-load Test





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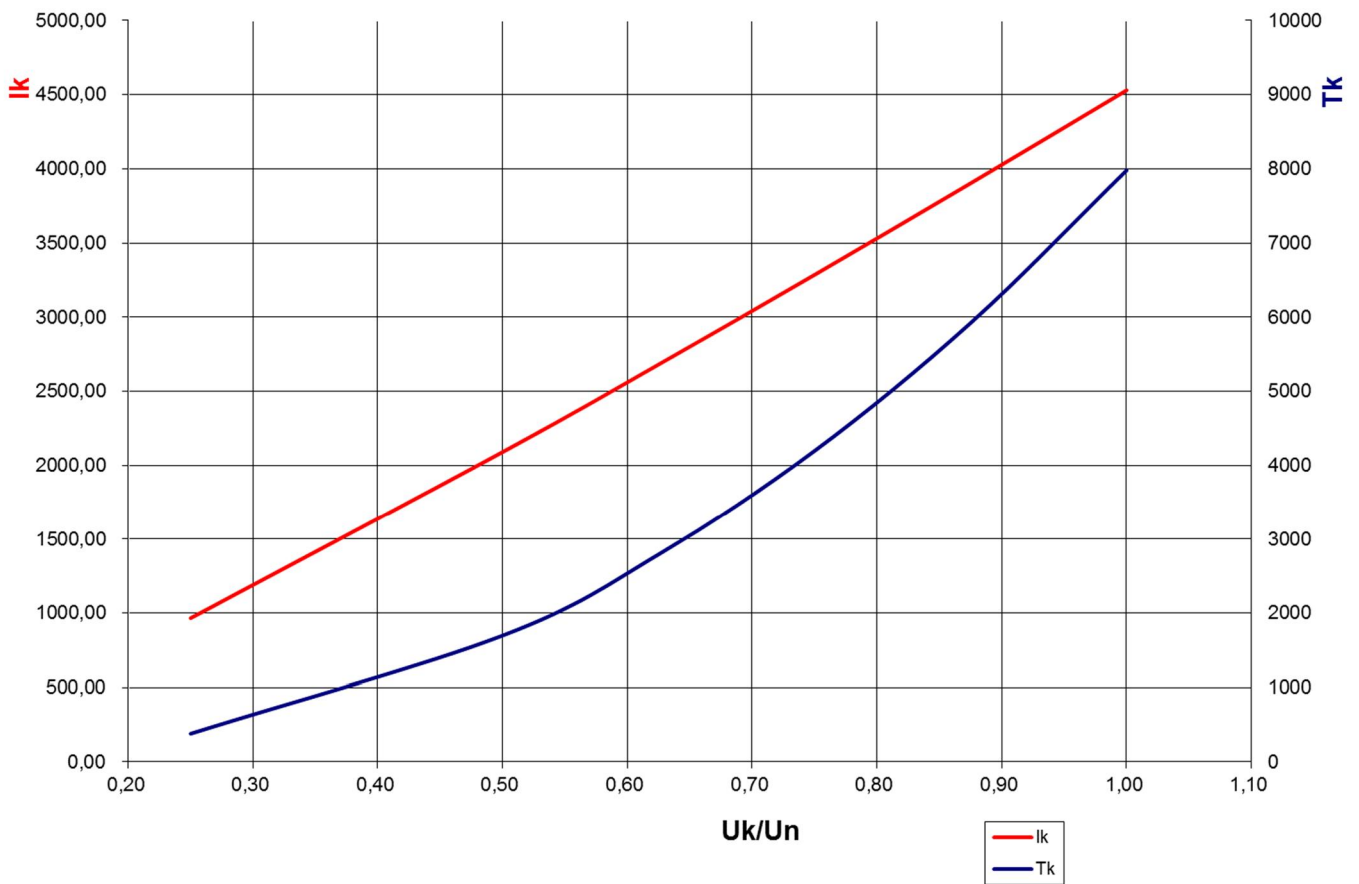
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Locked-rotor Test1





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Locked-rotor Test2

