



# 感應電動機試驗記錄表

(Test Report of Induction Motor)



客戶 (Customer):

試驗日期 (Date):

型式 Type	輸出 Output (kW)	極數 Poles (P)	相數 Phase	框號 Frame No.	額定 Rating	頻率 Frequency (Hz)	電壓 Voltage (V)	電流 Current (A)	轉速 Speed (rpm)	額定效率 - 效率等級	
										Rated Eff. (%)	IE Code
AEHH-112M1-4	3.73	4	3	112M	S1	50	200	15.50	1460	86.7	IE3
AEUH-112M1-4						60	200	14.60	1755	89.5	IE3
						60	220	13.20	1760	89.5	IE3
						60	230	12.80	1765	89.5	IE3
絕緣等級 Ins. Class		保護方式 Protection		冷卻方式 Cooling		軸承 Bearings		標準 Standard		試驗方法 Test Method	
155(F)		IP-54		TEFC / IC411		6306zz / 6305zz		JIS C4213:2014		JIS C4034-2-1:2011	

## 特性試驗 Characteristics Test

頻率 Frequency (Hz)	無負載試驗 No-Load Test			堵住試驗 Locked-Rotor Test						繞組電阻(端子間) Winding Resistance Between Terminals at 25°C (Ω)
	電壓 Voltage (V)	電流 Current (A)	輸入功率 Input Power (W)	額定頻率 Rated Frequency(Hz)			1/2 頻率 1/2 Frequency(Hz)			
				電壓 Voltage (V)	電流 Current (A)	輸入功率 Input Power (W)	電壓 Voltage (V)	電流 Current (A)	輸入功率 Input Power (W)	
50	200	7.48	171.0							0.4849
60	200	5.26	135.0							0.4849
60	220	6.19	162.0							0.4850
60	230	6.82	180.0							0.4850

## 負載試驗 Load Characteristics Test

頻率 / 電壓 Freq. / Volt. (Hz / V)	負載率 Load (%)	電流 Current (A)	輸入功率 Input Power (W)	轉矩 Torque (N·m)	轉速 Speed (rpm)	功率因數 Power Factor (%)	效率 Efficiency (%)	起動電流 Starting Current(A)	起動轉矩 Starting Torque(%)	脫載轉矩 Break-Down Torque(%)	最大輸出 Maximum Output(%)
50 Hz 200 V	25	8.11	1120.8	5.968	1492	39.9	83.2	103.1	187.5	372.2	
	50	9.84	2102.6	12.001	1484	61.7	88.7				
	75	12.21	3118.8	18.098	1476	73.7	89.7				
	100	15.04	4177.0	24.279	1467	80.2	89.3				
	125	18.22	5280.3	30.557	1457	83.7	88.3				
	150	21.72	6445.9	36.948	1446	85.7	86.8				
60 Hz 200 V	25	6.18	1086.9	4.972	1791	50.8	85.8	85.0	129.7	313.3	
	50	8.30	2072.3	9.994	1782	72.1	90.0				
	75	11.03	3098.0	15.075	1772	81.1	90.3				
	100	14.16	4167.6	20.226	1761	85.0	89.5				
	125	17.61	5292.3	25.470	1748	86.8	88.1				
	150	21.43	6483.2	30.811	1734	87.3	86.3				
60 Hz 220 V	25	6.87	1109.9	4.966	1793	42.4	84.0	96.7	178.8	389.4	
	50	8.53	2081.2	9.977	1785	64.0	89.6				
	75	10.73	3081.1	15.033	1777	75.4	90.8				
	100	13.30	4111.5	20.134	1769	81.1	90.7				
	125	16.13	5177.1	25.297	1760	84.2	90.1				
	150	19.19	6283.0	30.530	1750	85.9	89.0				
60 Hz 230 V	25	7.35	1124.8	4.966	1793	38.4	82.9	103.3	206.3	428.5	
	50	8.81	2091.9	9.966	1787	59.6	89.2				
	75	10.78	3085.2	15.007	1780	71.8	90.7				
	100	13.12	4105.2	20.100	1772	78.5	90.9				
	125	15.71	5157.5	25.239	1764	82.4	90.4				
	150	18.52	6242.4	30.425	1756	84.6	89.6				

## 溫升試驗 Temperature Rise Test

[負載 Load: 100 %]

## 其他試驗 Others Test

## 絕緣耐壓試驗

## Dielectric Test

頻率 Frequency (Hz)	熱電偶法 Thermocouple Method		溫度計法 Thermometer Method			噪音試驗 Noise Test (dB/1m)(A)	振動試驗 Vibration Test (mm/mm)	絕緣電阻試驗 Insulation Resistance by 500V Megger(MΩ) (MΩ/DC500V)	絕緣耐壓試驗 High-Potential Test (A.C.60Hz/1min) (V / min)
	繞組溫升 Windings Temp. Rise(K)	定子 Core(K)	外殼 Frame(K)	軸承 Bearing(K)					
50	47.9	40.5	28.6	32.2			100	1800	
60	42.3	35.6	24.1	28.9					
60	38.3	32.4	22.1	26.2					
60	37.3	31.6	21.4	25.1					

## 備註 Notes

	年耗電量 Annual power consumption		核 准 (Approved by):  <i>Jong-Jyi Luoh</i>	
	一小時CO2排放量 One-hour CO2 emissions			
	20492 kWh	1775 g / hr		試驗 (Tested by):
	20446 kWh	1771 g / hr		
	20171 kWh	1747 g / hr		
20140 kWh	1745 g / hr			