



Type Test Report				Date of issue: 4.11.2015						
Customer ref.:				Serial No.:						
				Motor Type: M3AA 100 LA 8						
				Product Code: 3GAA104510-ASE						
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		400	Y 50	0,75	720	3,20	0,47	S1		
Insul.cl.F		230	D 50	0,75	720	5,60	0,47	S1		
IP55		460	Y 60	0,75	865	2,40	0,51	S1		
Eff class IE2		50Hz : IE2 - 70,7%(100%) - 67,1%(75%) - 59,9%(50%) 60Hz : IE2 - 74,2%(100%)								
Resistance				Insulation resistance at			Overload			
Line		Ambient: 19,4 °C		R > 1000Mohm		0,0kV		Volts 130 % 60s		
U ₁ - V ₁		14,5870 Ω						Amp 160 % 120s		
U ₁ - W ₁		14,5930 Ω						rpm 120 % 120s		
V ₁ - W ₁		14,5900 Ω								
				High-voltage test winding 2400V 60s						
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos ρ	η [%]	
No load test		400 D	50	2,3	0,18		750	0,12		
Locked rotor test		138 D	50	3,2	0,44			0,57		
Thermal test (100% load)	10,0	400 D	50	2,6	1,02	0,75	717	0,56	73,70	
Partial load points:										
~75% load	7,4	400 D	50	2,4	0,79	0,56	726	0,47	71,20	
~50%load	4,9	400 D	50	2,3	0,58	0,38	734	0,36	65,00	
~25%load	2,4	400 D	50	2,2	0,38	0,19	742	0,24	49,70	
Temperature rise at rated load.			°C	K	Method	Measurement method				
Stator winding ⁺ :			41,1	1	1 Resistance					
Frame :			48,9	2	2 Thermometer					
Bearing D-end :			46,5	2	3 Thermocouples					
Ambient Temperature :			20,2	2						
These tests have been carried out on motor no. 3GE12635053525, on date 2013-12-17 which is identical in electrical design with the above.										
Manufactured in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.										
On behalf of customer										
On behalf of manufacturer					Date of test					
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00		Telefax +46 (0)21 32 90 22		

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