



Type Test Report					Date of issue: 4.11.2015					
Customer ref.:					Serial No.:					
					Motor Type: M3AA 112 MB 2					
					Product Code: 3GAA111320-ADE					
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		690	Y	50	4,00	2885	4,30	0,88 S1		
Insul.cl.F		400	D	50	4,00	2885	7,60	0,88 S1		
IP55		460	D	60	4,00	3490	6,20	0,91 S1		
Eff class IE2		50Hz : IE2 - 86,1%(100%) - 87,0%(75%) - 88,0%(50%) 60Hz : IE2 - 87,6%(100%)								
Resistance					Insulation resists at 26 °C			Overload		
Line Ambient: 20,0 °C					R>2000Mohm 1000V			Current 150 % 120s		
U ₁ - V ₁ 2,4333 Ω					High-voltage test winding 2400V 60s			Torque 160 % 15s		
U ₁ - W ₁ 2,4303 Ω								Speed 120 % 120s		
V ₁ - W ₁ 2,4303 Ω										
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	2,0	0,22		2886	0,16		
Locked rotor test		63 D	50	7,6	0,47		0	0,57		
Thermal test (100% load)	13,5	400 D	50	7,6	4,83	4,06	2875	0,92	84,10	
Partial load points:										
~75% load	10,0	400 D	50	5,7	3,58	3,05	2907	0,90	85,20	
~50% load	7,0	400 D	50	4,4	2,51	2,14	2940	0,85	85,40	
~25% load	3,4	400 D	50	2,7	1,31	1,05	2971	0,68	79,80	
Temperature rise at rated load.				°C	K	Method	Measurement method			
Stator winding ⁺ :				72,0	3		1 Resistance			
Frame :				37,6	3		2 Thermometer			
Bearing D-end :				44,5	3		3 Thermocouples			
Ambient Temperature :				25	3					
These tests have been carried out on motor no. 3GE12828049608, on date 2013-10-11 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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