



Type Test Report					Date of issue: 1.9.2015					
Customer ref.:					Serial No.:					
					Motor Type: M3AA 250SMB 2					Product Code: 3GAA251220-ADK
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3~Motor		690	Y	50	75,00	2971	73,60	0,90 S1		
Insul.cl.F		400	D	50	75,00	2971	127,00	0,90 S1		
IP55		415	D	50	75,00	2973	122,00	0,90 S1		
Eff class IE3		50Hz : IE3 - 94,7(100%) - 95,1(75%) - 94,8(50%)								
Resistance				Ambient: 20,0 °C			Isulation resistans at 26 °C		Overload	
Line				R>2000Mohm			1000V		Volts 130 % 60s	
U ₁ - V ₁				0,0037 Ω					Amp 160 % 120s	
U ₁ - W ₁				0,0038 Ω					rpm 120 % 120s	
V ₁ - W ₁				0,0038 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	28,2	1,74		2971	0,09		
Locked rotor test		68 D	50	128,7	5,70		0	0,38		
Thermal test (100% load)	240,8	400 D	50	127,1	78,81	74,85	2969	0,90	95,00	
Partial load points:										
~75% load	180,2	400 D	50	95,7	59,18	56,17	2977	0,89	94,90	
~50%load	120,3	400 D	50	69,3	39,79	37,60	2985	0,85	94,00	
~25%load	60,6	400 D	50	45,1	20,78	19,00	2993	0,70	89,70	
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method			
Stator winding ⁺ :				74,9	3		1 Resistance			
Frame :				19,8	3		2 Thermometer			
Bearing D-end :				59,8	3		3 Thermocouples			
Ambient Temperature :		25			3					
These tests have been carried out on motor no. 3G1S14271421408, on date 2014-09-19 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			
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