



Type Test Report				Date of issue: 20.11.2015					
				Type: M3JM 355SMA 2					
				Product Code: 3GJM351210-_DG					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 10 ATEX 3089 X / IECEX LCI 04.0008X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	250,0	2984	245	0,89	S1	
Insul.cl.F		400	D 50	250,0	2984	423	0,89	S1	
IP66		415	D 50	250,0	2985	410	0,88	S1	
Eff class IE2		50Hz: IE2 - 95,7%(100%) - 95,5%(75%) - 94,5%(50%)							
Resistance			Insulation resistance at 50 °C			Overload			
Line			1500 MΩ			1000 V			
Ambient: 20 °C						Torque 160 % 15s			
U <sub>1</sub> - V <sub>1</sub>		0,00471 Ω							
U <sub>1</sub> - W <sub>1</sub>		0,00472 Ω							
V <sub>1</sub> - W <sub>1</sub>		0,00472 Ω							
			High-voltage test winding			1900 V 60 s			
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	η[r/min]	cos φ	η[%]
No load test		400 D	50	106,2	5,13		3000	0,0698	
Locked rotor test		59,6 D	50	424,9	10,4		0	0,24	
Thermal test ( 100% load )	800,1	400,3 D	50	422,4	259,1	250,0	2985	0,89	96,5
Partial load points:									
~75% load	602,3	400,3 D	50	325,1	194,8	187,5	2990	0,87	96,2
~50% load	398,7	400,4 D	50	233,7	131,1	125,0	2993	0,81	95,3
~25% load	199,2	400,4 D	50	153,8	67,9	62,5	2997	0,64	92,1
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				51	1		1 Resistance		
Frame :				22	2		2 Thermocouples		
Bearing D-end :				37	2		3 Thermometer		
Ambient Temperature :		25			2				
						Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 7,64			
						Locked rotor torque (T <sub>I</sub> / T <sub>N</sub> ) : 2,24			
These tests have been carried out on motor no. 3GP11020768, on date 2011-10-28, which is identical in electrical design with the above.									
Manufactured and tested 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									
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

Computer print-out valid without signature.