



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 250SMA 2 Product Code: 3GJM251210-DL Protection type: Ex d I Mb Cert. No.: LCIE 10 ATEX 3063X IECEx LCI 04.0012X							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y	50	55	2968	54,9	0,89	S1		
Insul.cl.F		400	D	50	55	2968	94,8	0,89	S1		
IP66		415	D	50	55	2970	92,1	0,89	S1		
		440	D	60	55	3566	85,9	0,89	S1		
Eff class IE3		460	D	60	55	3569	82,7	0,90	S1		
				50Hz: IE3-94,3%(100%)-93,7%(75%)-93,6%(50%)							
				60Hz: IE3-93,6%(100%)							
Resistance				Insulation resistance at 99 °C				Overload			
Line				2000 MΩ				Torque 160% 15s			
Ambient: 22 °C				1000 V							
U ₁ - V ₁		0,05823 Ω									
U ₁ - W ₁		0,05819 Ω									
V ₁ - W ₁		0,05820 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		400,2	D	50	24,1	1,28	2998	0,08			
Locked rotor test		72,1	D	50	94,8	4,30	0	0,36			
Thermal test (100% load)	176,7	400,4	D	50	94,8	58,2	55,0	2968	0,89	94,6	
Partial load points:											
~75% load	132,6	400,3	D	50	72,6	43,6	41,3	2975	0,87	94,6	
~50% load	88,4	400,3	D	50	52,1	29,3	27,5	2983	0,81	94,0	
~25% load	44,5	400,6	D	50	34,7	15,2	13,8	2990	0,63	90,6	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				66	1	1		1 Resistance			
Frame :				39	2	2		2 Thermocouples			
Bearing D-end :				48	2	2		3 Thermometer			
Rotor:				81	3	3					
Ambient Temperature :				25	2	2					
<p>These tests have been carried out on motor no. 3G1P141700190, on date 2014-09-24 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p>											
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