



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 355SMA 4 Product Code: 3GJM352210_DL 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	1491	253	0,86	S1	
Insul.cl.F		400	D 50	250	1491	435	0,86	S1	
IP66		415	D 50	250	1491	424	0,85	S1	
		440	D 60	250	1791	393	0,86	S1	
		460	D 60	250	1792	380	0,85	S1	
Eff class IE3		50Hz : IE3-96.0%(100%)-96.0%(75%)-95.6%(50%) 60Hz : IE3-96.2%(100%)							
Resistance			Insulation resistance at 63 °C			Overload			
Line Ambient: 24 °C			4600 MΩ 1000 V			Torque 160% 15s			
U ₁ - V ₁ 0,00633 Ω									
U ₁ - W ₁ 0,00633 Ω									
V ₁ - W ₁ 0,00633 Ω									
			High-voltage test winding 2400 V			60 s			
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400,0 D	50	127,8	3,73		1500	0,04	
Locked rotor test		70,4 D	50	435,5	14,7		0	0,28	
Thermal test (100% load)	1601	400,5 D	50	435,4	259,0	250,0	1491	0,86	96,5
Partial load points:									
~75% load	1202	400,3 D	50	336,4	194,2	187,5	1494	0,83	96,5
~50% load	807,0	400,4 D	50	245,8	130,1	125,0	1496	0,76	96,1
~25% load	404,4	400,3 D	50	170,3	66,6	62,5	1498	0,56	93,8
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				55	1		1 Resistance		
Frame :				26	2		2 Thermocouples		
Bearing D-end :				35	2		3 Thermometer		
Rotor :				77	3				
Ambient Temperature :		25			2				
<p>These tests have been carried out on motor no. 3GF13166411, on date 2013-07-04 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>									
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			

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