



Type Test Report				Date of issue: 25.11.2015					
				Type: M3JM 225SMC 4					
				Product Code: 3GJM222230-_DG					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 10 ATEX 3057X / IECEX LCI 04.0005X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	45	1477	47,3	0,86	S1	
Insul.cl.F		400	D 50	45	1477	78,4	0,86	S1	
IP66		415	D 50	45	1479	79,6	0,85	S1	
Eff class IE2		50Hz : IE2-94.1%(100%)-94.4%(75%)-94.3%(50%)							
Resistance				Insulation resistance at 43 °C			Overload		
Line		Ambient: 22 °C		4900 MΩ		1000 V		Torque 160 % 15s	
U ₁ - V ₁		0,08011 Ω							
U ₁ - W ₁		0,08011 Ω							
V ₁ - W ₁		0,08028 Ω							
				High-voltage test winding 2900 V			1 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		400,1 D	50	25,4	1,00		1500	0,06	
Locked rotor test		79,8 D	50	78,4	3,91		0	0,36	
Thermal test (100% load)	291,0	400,1 D	50	81,5	48,1	45,0	1480	0,85	93,5
Partial load points:									
~75% load	217,8	400,0 D	50	62,5	35,9	33,8	1486	0,83	93,9
~50% load	145,0	400,1 D	50	45,6	24,0	22,5	1491	0,76	93,7
~25% load	72,6	400,1 D	50	31,8	12,4	11,3	1495	0,56	90,8
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				63	1			1 Resistance	
Frame :				27	2			2 Thermocouples	
Bearing D-end :				45	2			3 Thermometer	
Rotor :					3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3GF12103384, on date 2012-03-18, which is identical in electrical 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> <p style="text-align: right;">Telephone +358 10 2211 Telefax +358 10 22 47372</p>									

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