



Test Report				Date of issue: 23.11.2015						
				Type: M3JM 280SMA 6						
				Product Code: 3GJM283210-_DG						
				Protection type: Ex d I Mb						
				Cert. No.: LCIE 11 ATEX 3089X / IECEx LCI 04.0006X						
Rating:										
		V	Hz	kW	r/min	A	cos φ	Duty		
3~Motor		690	Y 50	45	990	48,6	0,83	S1		
Insul.cl.F		400	D 50	45	990	83,8	0,83	S1		
IP66		415	D 50	45	991	81,7	0,82	S1		
Eff class IE2		50Hz: IE2 - 93,4%(100%) - 93,8%(75%) - 93,5%(50%)								
Resistance				Insulation resistance at 50 °C			Overload			
Line		Ambient: 23 °C		1700 MΩ		1000 V		Torque 160 % 15s		
U ₁ - V ₁		0,08113 Ω								
U ₁ - W ₁		0,08108 Ω								
V ₁ - W ₁		0,08112 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	26,9	1,07		1000	0,06		
Locked rotor test		85,9 D	50	81,0	3,66		0	0,30		
Thermal test (100% load)	433,7	400,1 D	50	83,8	48,2	45,0	990	0,83	93,3	
Partial load points:										
~75% load	326,7	400,1 D	50	64,6	36,0	33,8	992	0,80	93,7	
~50% load	214,8	400,1 D	50	47,5	24,1	22,5	995	0,73	93,4	
~25% load	107,1	400,1 D	50	33,8	12,5	11,3	998	0,53	90,3	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				54	1			1 Resistance		
Frame :				32	2			2 Thermocouples		
Bearing D-end :				36	2			3 Thermometer		
Ambient Temperature :				25	2					
Starting current (I _S / I _N) : 6,98										
Locked rotor torque (T _I / T _N) : 2,51										
These tests have been carried out on motor no. 3GF10023987, on date 2010-06-06, 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				

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