



Test Report				Date of issue: 20.11.2015					
				Type: M3JM 400LKA 4		Product Code: 3GJM402810-_DG			
				Protection type: Ex d I Mb		Cert. No.: LCIE 10 ATEX 3004 X / IECEx LCI 04.0032X			
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	560	1491	569	0,85	S1	
Insul.cl.F		400	D 50	560	1491	982	0,85	S1	
IP66		415	D 50	560	1492	966	0,83	S1	
Resistance				Insulation resistance at 74 °C			Overload		
Line				7500 MΩ 1000 V			Torque 160% 15s		
Ambient: 21 °C									
U ₁ - V ₁		0,00183 Ω							
U ₁ - W ₁		0,00184 Ω							
V ₁ - W ₁		0,00183 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]	η[r/min]	cos φ	η[%]
No load test		399,9 D	50	307,4	7,77		1500	0,04	
Locked rotor test		70,1 D	50	982,4	31,5		0	0,26	
Thermal test (100% load)	3587	401,0 D	50	980,5	579,1	560,0	1491	0,85	96,7
Partial load points:									
~75% load	2690	401,1 D	50	760,2	434,1	420,0	1494	0,82	96,8
~50% load	1790	400,8 D	50	559,7	290,6	280,0	1496	0,75	96,3
~25% load	891,6	401,4 D	50	395,3	148,6	140,0	1498	0,54	94,2
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				73	1	1		Resistance	
Frame :				39	2	2		Thermocouples	
Bearing D-end :				38	2	3		Thermometer	
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3GF12112540B, on date 2012-05-03, which is identical in design with the above.						Starting current (I _s / I _N) : 6,99			
						Locked rotor torque (T _L / T _N) : 2,20			
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			
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