



Test Report				Date of issue: 20.11.2015						
				Type: M3JM 450LA 6 Product Code: 3GJM453510-_DG Protection type: Ex d I Mb Cert. No.: LCIE 11 ATEX 3008X / IECEX LCI 11.0023X						
Rating:										
				V	Hz	kW	r/min	A	cos φ	Duty
3-Motor				690	Y 50	630	994	652	0,84	S1
Insul.cl.F				400	D 50	630	993	1127	0,84	S1
IP66				415	D 50	630	995	1097	0,83	S1
Resistance Line				Ambient: 23 °C 2100 MΩ 1000 V				81 °C Overload Torque 160% 15s		
U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				0,00220 Ω 0,00220 Ω 0,00221 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		400,0 D	50	340,8	8,34		998	0,04		
Locked rotor test		88,5 D	50	1118	36,2		0	0,21		
Thermal test (100% load)	6053	400,7 D	50	1132	655,7	630,0	994	0,84	96,1	
Partial load points:										
~75% load	4537	400,6 D	50	870,1	490,4	472,5	996	0,81	96,3	
~50% load	3025	400,5 D	50	635,6	327,6	315,0	997	0,74	96,2	
~25% load	1512	400,3 D	50	443,9	167,0	157,5	999	0,54	94,3	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method		
Stator winding :				81	1			1 Resistance		
Frame :				41	2			2 Thermocouples		
Bearing D-end :				41	2			3 Thermometer		
Ambient Temperature :				25	2					
These tests have been carried out on motor no. 3GF13160010C, on date 2013-07-21, which is identical in design with the above.										
Starting current (I _S / I _N) : 5,86 Locked rotor torque (T _I / T _N) : 1,32										
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										
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