



Test Report				Date of issue: 20.11.2015							
				Type: M3JM 355MLA 4 Product Code: 3GJM352410-_DG 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	400	1489	409	0,85	S1
Insul.cl.F				400	D	50	400	1489	705	0,85	S1
IP66				415	D	50	400	1490	687	0,84	S1
Resistance				Insulation resistance at 62 °C				Overload			
Line				6850 MΩ 1000 V				Torque 160% 15s			
U ₁ - V ₁				0,00353 Ω							
U ₁ - W ₁				0,00353 Ω							
V ₁ - W ₁				0,00353 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		400,1 D	50	196,6	5,44		1500	0,04			
Locked rotor test		75,3 D	50	705,8	27,2		0	0,29			
Thermal test (100% load)	2565	400,1 D	50	698,7	415,5	400,0	1490	0,86	96,3		
Partial load points:											
~75% load	1925	400,4 D	50	535,2	311,0	300,0	1493	0,84	96,5		
~50% load	1284	400,4 D	50	386,9	207,9	200,0	1495	0,78	96,2		
~25% load	642,4	400,5 D	50	263,1	106,1	100,0	1498	0,58	94,3		
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method				
Stator winding :				68	1		1 Resistance				
Frame :				32	2		2 Thermocouples				
Bearing D-end :				48	2		3 Thermometer				
Ambient Temperature :				25	2						
Starting current (I _S / I _N) : 6,49											
Locked rotor torque (T _L / T _N) : 2,31											
These tests have been carried out on motor no. 3G1F1434226932B, on date 2014-09-29, which is identical in 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											
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