



Test Report				Date of issue: 23.11.2015																																																							
				Type: M3JM 315MLA 6																																																							
				Product Code: 3GJM313410-DG																																																							
				Protection type: Ex d I Mb																																																							
				Cert. No.: LCIE 11 ATEX 3090X / IECEx LCI 04.0007																																																							
Rating:																																																											
<table border="1"> <thead> <tr> <th></th> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>3-Motor</td> <td>690</td> <td>Y 50</td> <td>132</td> <td>991</td> <td>139</td> <td>0,83</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D 50</td> <td>132</td> <td>991</td> <td>240</td> <td>0,83</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>IP66</td> <td>415</td> <td>D 50</td> <td>132</td> <td>992</td> <td>234</td> <td>0,82</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>Eff class IE2</td> <td colspan="9">50Hz: IE2 - 95,3%(100%) - 95,4%(75%) - 94,9%(50%)</td> </tr> </tbody> </table>											V	Hz	kW	r/min	A	cos φ	Duty			3-Motor	690	Y 50	132	991	139	0,83	S1			Insul.cl.F	400	D 50	132	991	240	0,83	S1			IP66	415	D 50	132	992	234	0,82	S1			Eff class IE2	50Hz: IE2 - 95,3%(100%) - 95,4%(75%) - 94,9%(50%)								
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Resistance				Insulation resistance at 55 °C				Overload																																																			
Line				2500 MΩ				1000 V		Torque 160 % 15s																																																	
U ₁ - V ₁				0,01919 Ω																																																							
U ₁ - W ₁				0,01920 Ω																																																							
V ₁ - W ₁				0,01919 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	85,7	2,14		1000	0,04																																																			
Locked rotor test		75,9 D	50	242,8	9,77		0	0,31																																																			
Thermal test (100% load)	1272	400,1 D	50	239,4	138,4	132,0	991	0,83	95,4																																																		
Partial load points:																																																											
~75% load	954,9	400,7 D	50	187,4	103,4	99,0	994	0,80	95,7																																																		
~50% load	636,0	400,1 D	50	141,2	69,1	66,0	997	0,71	95,5																																																		
~25% load	320,7	400,5 D	50	104,6	35,4	33,0	999	0,49	93,2																																																		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																																																			
Stator winding :				55	1			1 Resistance																																																			
Frame :				38	2			2 Thermocouples																																																			
Bearing D-end :				38	2			3 Thermometer																																																			
Ambient Temperature :				25	2																																																						
<p>Starting current (I_S / I_N) : 7,25 Locked rotor torque (T_I / T_N) : 2,96</p> <p>These tests have been carried out on motor no. 3GF10042219, on date 2010-10-06, 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>																																																											
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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