



Test Report				Date of issue: 23.11.2015																																									
				Type: M3JM 315MLA 2 Product Code: 3GJM311410-_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> </tr> </thead> <tbody> <tr> <td>3~Motor</td> <td>690</td> <td>Y</td> <td>50</td> <td>185</td> <td>2984</td> <td>181</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D</td> <td>50</td> <td>185</td> <td>2984</td> <td>312</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>IP66</td> <td>415</td> <td>D</td> <td>50</td> <td>185</td> <td>2984</td> <td>304</td> <td>0,88</td> <td>S1</td> </tr> </tbody> </table>								V	Hz	kW	r/min	A	cos φ	Duty	3~Motor	690	Y	50	185	2984	181	0,89	S1	Insul.cl.F	400	D	50	185	2984	312	0,89	S1	IP66	415	D	50	185	2984	304	0,88	S1
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Eff class IE2				50Hz: IE2 - 95,9%(100%) - 95,8%(75%) - 95,1%(50%)																																									
Resistance				Insulation resistance at 61 °C				Overload																																					
Line				2300 MΩ 1000 V				Torque 160 % 15s																																					
Ambient: 21 °C $U_1 - V_1$ 0,00832 Ω $U_1 - W_1$ 0,00830 Ω $V_1 - W_1$ 0,00832 Ω				High-voltage test winding 1900 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		400,1 D	50	70,1	3,65		3000	0,08																																					
Locked rotor test		64,2 D	50	314,1	9,95		0	0,28																																					
Thermal test (100% load)	592,5	400,8 D	50	313,7	192,9	185,0	2984	0,89	95,9																																				
Partial load points:																																													
~75% load	444,0	400,9 D	50	239,3	144,8	138,8	2988	0,87	95,8																																				
~50% load	292,5	401,1 D	50	169,7	97,3	92,5	2993	0,83	95,1																																				
~25% load	145,2	401,2 D	50	108,8	50,2	46,3	2997	0,67	92,1																																				
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method																																						
Stator winding :				66	1		1 Resistance																																						
Frame :				33	2		2 Thermocouples																																						
Bearing D-end :				42	2		3 Thermometer																																						
Rotor:				79	3																																								
Ambient Temperature :				25	2																																								
These tests have been carried out on motor no. 3GP11023670, on date 2012-01-18, 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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