



Test Report				Date of issue: 25.11.2015																																						
				Type: M3JM 180MLA 4																																						
				Product Code: 3GJM182410-_DH																																						
				Protection type: Ex d I Mb																																						
				Cert. No.: LCIE 11 ATEX 3088X / IECEX LCI 09.0009X																																						
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 50</td> <td>18,5</td> <td>1474</td> <td>20,6</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D 50</td> <td>18,5</td> <td>1474</td> <td>35,7</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>IP66</td> <td>415</td> <td>D 50</td> <td>18,5</td> <td>1476</td> <td>35,0</td> <td>0,81</td> <td>S1</td> </tr> </tbody> </table>												V	Hz	kW	r/min	A	cos φ	Duty	3-Motor	690	Y 50	18,5	1474	20,6	0,83	S1	Insul.cl.F	400	D 50	18,5	1474	35,7	0,83	S1	IP66	415	D 50	18,5	1476	35,0	0,81	S1
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Eff class IE2 50Hz : IE2 - 91.6%(100%) - 92.1%(75%) - 91.5%(50%)																																										
Resistance				Insulation resistance at 50 °C				Overload																																		
Line				Ambient: 21 °C				13000 MΩ 1000 V																																		
U ₁ - V ₁				0,26710 Ω				Torque 160% 15s																																		
U ₁ - W ₁				0,26710 Ω																																						
V ₁ - W ₁				0,26660 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	13,9	0,54		1500	0,06																																		
Locked rotor test		94,4 D	50	36,0	2,09		0	0,36																																		
Thermal test (100% load)	119,9	400,3 D	50	35,8	20,3	18,5	1472	0,82	91,3																																	
Partial load points:																																										
~75% load	88,7	400,2 D	50	28,0	15,1	13,9	1481	0,78	92,1																																	
~50% load	61,0	400,1 D	50	21,4	10,1	9,25	1487	0,68	91,7																																	
~25% load	29,5	400,3 D	50	16,2	5,24	4,62	1495	0,47	88,2																																	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																																		
Stator winding :				58	1			1 Resistance																																		
Frame :				29	2			2 Thermocouples																																		
Bearing D-end :				33	2			3 Thermometer																																		
Rotor:				74	3																																					
Ambient Temperature :				25	2																																					
<p>These tests have been carried out on motor no. 3GF10019309, on date 2010-04-13, 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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