



Test Report				Date of issue: 23.11.2015																																																							
				Type: M3JM 315SMC 4 Product Code: 3GJM312230-_DG Protection type: Ex d I Mb Cert. No.: LCIE 11 ATEX 3090X / IECEX LCI 04.0007X																																																							
Rating:																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <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>160</td> <td>1487</td> <td>169</td> <td>0,85</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D 50</td> <td>160</td> <td>1487</td> <td>284</td> <td>0,85</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>IP66</td> <td>415</td> <td>D 50</td> <td>160</td> <td>1488</td> <td>277</td> <td>0,84</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td colspan="10" style="text-align: center;">50Hz : IE2 - 95.3%(100%) - 95.3%(75%) - 94.8%(50%)</td> </tr> </tbody> </table>											V	Hz	kW	r/min	A	cos φ	Duty			3~Motor	690	Y 50	160	1487	169	0,85	S1			Insul.cl.F	400	D 50	160	1487	284	0,85	S1			IP66	415	D 50	160	1488	277	0,84	S1			50Hz : IE2 - 95.3%(100%) - 95.3%(75%) - 94.8%(50%)									
	V	Hz	kW	r/min	A	cos φ	Duty																																																				
3~Motor	690	Y 50	160	1487	169	0,85	S1																																																				
Insul.cl.F	400	D 50	160	1487	284	0,85	S1																																																				
IP66	415	D 50	160	1488	277	0,84	S1																																																				
50Hz : IE2 - 95.3%(100%) - 95.3%(75%) - 94.8%(50%)																																																											
Resistance				Insulation resistance at 68 °C			Overload																																																				
Line		Ambient: 23 °C		11000 MΩ		1000 V		Torque 160% 15s																																																			
U ₁ - V ₁		0,01316 Ω																																																									
U ₁ - W ₁		0,01317 Ω																																																									
V ₁ - W ₁		0,01317 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		400,0 D	50	94,7	2,86		1500	0,04																																																			
Locked rotor test		73,6 D	50	286,8	11,2		0	0,31																																																			
Thermal test (100% load)	1028	400,1 D	50	285,3	167,1	160,0	1489	0,85	95,7																																																		
Partial load points:																																																											
~75% load	773,4	400,0 D	50	222,8	125,4	120,0	1490	0,81	95,7																																																		
~50% load	516,4	400,0 D	50	165,9	84,0	80,0	1493	0,73	95,2																																																		
~25% load	255,4	400,0 D	50	119,7	43,2	40,0	1495	0,52	92,6																																																		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																																																			
Stator winding :				69	1			1 Resistance																																																			
Frame :				37	2			2 Thermocouples																																																			
Bearing D-end :				77	2			3 Thermometer																																																			
Rotor:				102	3																																																						
Ambient Temperature :				25	2																																																						
<p>These tests have been carried out on motor no. 0845-010576443, on date 2009-01-16, 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																																																					

Computer print-out valid without signature.