



Type Test Report				Date of issue: 23.11.2015																																																							
				Type: M3JM 315SMC 2																																																							
				Product Code: 3GJM311230-_DG																																																							
				Protection type: Ex d I Mb																																																							
				Cert. No.: LCIE 11 ATEX 3090X / IECEX LCI 04.0007X																																																							
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>150</td> <td>2985</td> <td>149</td> <td>0,88</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D 50</td> <td>150</td> <td>2985</td> <td>257</td> <td>0,88</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>IP66</td> <td>415</td> <td>D 50</td> <td>150</td> <td>2983</td> <td>250</td> <td>0,87</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>Eff class IE3</td> <td colspan="9">50Hz: IE3 - 95,6%(100%) - 95,4%(75%) - 94,4%(50%)</td> </tr> </tbody> </table>											V	Hz	kW	r/min	A	cos φ	Duty			3~Motor	690	Y 50	150	2985	149	0,88	S1			Insul.cl.F	400	D 50	150	2985	257	0,88	S1			IP66	415	D 50	150	2983	250	0,87	S1			Eff class IE3	50Hz: IE3 - 95,6%(100%) - 95,4%(75%) - 94,4%(50%)								
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Resistance				Insulation resistance at 41 °C			Overload																																																				
Line				12000 MΩ			1000 V																																																				
Ambient: 22 °C							Torque 160 % 15s																																																				
U ₁ - V ₁				0,01074 Ω																																																							
U ₁ - W ₁				0,01070 Ω																																																							
V ₁ - W ₁				0,01074 Ω																																																							
				High-voltage test winding			1800 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	65,7	3,51		3000	0,08																																																			
Locked rotor test		62,2 D	50	257,0	7,48		0	0,27																																																			
Thermal test (100% load)	480,2	400,7 D	50	258,8	156,9	150,0	2985	0,88	95,6																																																		
Partial load points:																																																											
~75% load	364,0	400,8 D	50	198,8	118,0	112,5	2989	0,86	95,4																																																		
~50% load	237,3	401,0 D	50	143,0	79,4	75,0	2993	0,80	94,4																																																		
~25% load	121,7	401,1 D	50	95,0	41,3	37,5	2997	0,63	90,8																																																		
Temperature rise at rated load.				°C	[K]	Method		Measurement method																																																			
Stator winding :				59	1			1 Resistance																																																			
Frame :				27	2			2 Thermocouples																																																			
Bearing D-end :				39	2			3 Thermometer																																																			
Ambient Temperature :				25	2																																																						
<p>These tests have been carried out on motor no. 3GP11021981, on date 2011-11-04, 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> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p> <p>Telephone +358 10 2211 Telefax +358 10 22 47372</p>																																																											

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