



Test Report				Date of issue: 23.11.2015																																																							
				Type: M3JM 280SMB 4																																																							
				Product Code: 3GJM282220-_DG																																																							
				Protection type: Ex d I Mb																																																							
				Cert. No.: LCIE 11 ATEX 3089X / IECEX LCI 04.0006X																																																							
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>90</td> <td>1483</td> <td>93,2</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>90</td> <td>1483</td> <td>160</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>90</td> <td>1484</td> <td>156</td> <td>0,84</td> <td>S1</td> <td colspan="2"></td> </tr> <tr> <td>Eff class IE2</td> <td colspan="9">50Hz: IE2 - 94,7%(100%) - 95,0%(75%) - 94,5%(50%)</td> </tr> </tbody> </table>											V	Hz	kW	r/min	A	cos φ	Duty			3-Motor	690	Y 50	90	1483	93,2	0,85	S1			Insul.cl.F	400	D 50	90	1483	160	0,85	S1			IP66	415	D 50	90	1484	156	0,84	S1			Eff class IE2	50Hz: IE2 - 94,7%(100%) - 95,0%(75%) - 94,5%(50%)								
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Eff class IE2	50Hz: IE2 - 94,7%(100%) - 95,0%(75%) - 94,5%(50%)																																																										
Resistance			Ambient: 21 °C			Insulation resistance at 59 °C		Overload																																																			
Line						13000 MΩ 1000 V		Torque 160 % 15s																																																			
U <sub>1</sub> - V <sub>1</sub>			0,03457 Ω																																																								
U <sub>1</sub> - W <sub>1</sub>			0,03458 Ω																																																								
V <sub>1</sub> - W <sub>1</sub>			0,03454 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]	η[r/min]	cos φ	η [%]																																																		
No load test		400,0 D	50	51,2	1,82		1500	0,05																																																			
Locked rotor test		74,0 D	50	159,1	7,08		0	0,35																																																			
Thermal test (100% load)	579,6	400,0 D	50	161,1	94,8	90,0	1484	0,85	95,0																																																		
Partial load points:																																																											
~75% load	435,3	400,0 D	50	125,0	71,1	67,5	1485	0,82	94,9																																																		
~50% load	291,3	400,1 D	50	91,8	47,5	45,0	1493	0,75	94,7																																																		
~25% load	143,5	400,2 D	50	65,0	24,5	22,5	1496	0,54	91,8																																																		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																																																			
Stator winding :				61	1			1 Resistance																																																			
Frame :				26	2			2 Thermocouples																																																			
Bearing D-end :				47	2			3 Thermometer																																																			
Ambient Temperature :				25	2																																																						
<p>These tests have been carried out on motor no. 0909-010591682, on date 2009-04-24, 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																																																											
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