



Test Report				Date of issue: 19.11.2015																																																														
				Type: M3JM 225SMB 4																																																														
				Product Code: 3GJM222220-_DK																																																														
				Protection type: Ex d I Mb																																																														
				Cert. No.: LCIE 10 ATEX 3057X																																																														
				IECEX LCI 04.0005X																																																														
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>45,0</td> <td>1482</td> <td>46,5</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D 50</td> <td>45,0</td> <td>1482</td> <td>80,2</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>IP66</td> <td>660</td> <td>Y 50</td> <td>45,0</td> <td>1479</td> <td>48,3</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td></td> <td>380</td> <td>D 50</td> <td>45,0</td> <td>1479</td> <td>83,9</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td></td> <td>415</td> <td>D 50</td> <td>45,0</td> <td>1483</td> <td>78,3</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td></td> <td>460</td> <td>D 60</td> <td>45,0</td> <td>1483</td> <td>70,5</td> <td>0,84</td> <td>S1</td> </tr> </tbody> </table>												V	Hz	kW	r/min	A	cos φ	Duty	3-Motor	690	Y 50	45,0	1482	46,5	0,85	S1	Insul.cl.F	400	D 50	45,0	1482	80,2	0,85	S1	IP66	660	Y 50	45,0	1479	48,3	0,86	S1		380	D 50	45,0	1479	83,9	0,86	S1		415	D 50	45,0	1483	78,3	0,84	S1		460	D 60	45,0	1483	70,5	0,84	S1
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Eff class IE3																																																																		
50Hz : IE3-95,2(100%)-95,6(75%)-95,5(50%)																																																																		
60Hz : IE3-95,3(100%)																																																																		
Resistance			Insulation resistance at 24 °C				Overload																																																											
Line			R > 2000 Mohm 1000 V				Torque 160 % 15s																																																											
U ₁ - V ₁			Ambient: 24 °C																																																															
U ₁ - W ₁			0,06776 Ω																																																															
V ₁ - W ₁			0,06779 Ω																																																															
			0,06779 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]	n[r/min]	cos φ	η [%]																																																									
No load test		398,9 D	50	28,7	0,64		1500	0,03																																																										
Locked rotor test		71,3 D	50	80,6	3,36		0	0,34																																																										
Thermal test (100% load)	290,2	400,0 D	50	80,4	47,3	45,0	1481	0,85	95,2																																																									
Partial load points:																																																																		
~75% load	219,1	400,0 D	50	63,4	35,7	34,1	1486	0,81	95,6																																																									
~50% load	147,1	400,0 D	50	47,7	24,0	23,0	1491	0,73	95,6																																																									
~25% load	74,9	400,0 D	50	35,1	12,5	11,7	1496	0,51	93,8																																																									
Temperature rise at rated load.			[°C]		[K]		Method		Measurement method																																																									
Stator winding :			69		1		1		Resistance																																																									
Frame :			54		2		2		Thermocouples																																																									
Bearing D-end :			46		2		3		Thermometer																																																									
Ambient Temperature :			25		2																																																													
<p>These tests have been carried out on motor no. 3GV1110796900001, on date 2011-09-20 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>																																																																		
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