



Test Report				Date of issue: 19.11.2015																																																													
				Type: M3JM 160MLA 2 Product Code: 3GJM161410-_DK Protection type: Ex d I Mb Cert. No.: LCIE 11 ATEX 3087X/ IECEX LCI 09.0008X																																																													
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>11,0</td> <td>2943</td> <td>10,8</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>Insul.cl.F</td> <td>400</td> <td>D 50</td> <td>11,0</td> <td>2943</td> <td>18,7</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>IP66</td> <td>660</td> <td>Y 50</td> <td>11,0</td> <td>2934</td> <td>11,4</td> <td>0,93</td> <td>S1</td> </tr> <tr> <td></td> <td>380</td> <td>D 50</td> <td>11,0</td> <td>2934</td> <td>19,6</td> <td>0,93</td> <td>S1</td> </tr> <tr> <td></td> <td>415</td> <td>D 50</td> <td>11,0</td> <td>2948</td> <td>18,2</td> <td>0,91</td> <td>S1</td> </tr> <tr> <td></td> <td>460</td> <td>D 60</td> <td>11,0</td> <td>3552</td> <td>16,5</td> <td>0,91</td> <td>S1</td> </tr> </tbody> </table>											V	Hz	kW	r/min	A	cos φ	Duty	3-Motor	690	Y 50	11,0	2943	10,8	0,92	S1	Insul.cl.F	400	D 50	11,0	2943	18,7	0,92	S1	IP66	660	Y 50	11,0	2934	11,4	0,93	S1		380	D 50	11,0	2934	19,6	0,93	S1		415	D 50	11,0	2948	18,2	0,91	S1		460	D 60	11,0	3552	16,5	0,91	S1
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Eff class IE3																																																																	
50Hz : IE3-92,1(100%)-92,7(75%)-92,4(50%) 60Hz : IE3-91,8(100%)																																																																	
Resistance				Insulation resistance at 22 °C			Overload																																																										
Line				R > 2000 Mohm 1000 V			Torque 160 % 15s																																																										
Ambient: 22 °C																																																																	
U ₁ - V ₁				0,42360 Ω																																																													
U ₁ - W ₁				0,42210 Ω																																																													
V ₁ - W ₁				0,42240 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		401,0 D	50	5,52	0,30		3000	0,08																																																									
Locked rotor test		58,0 D	50	18,1	0,70		0	0,38																																																									
Thermal test (100% load)	35,6	400,0 D	50	19,2	11,9	11,0	2949	0,90	92,2																																																								
Partial load points:																																																																	
~75% load	30,4	400,0 D	50	16,7	10,2	9,46	2973	0,88	92,6																																																								
~50% load	23,8	400,0 D	50	13,5	8,01	7,43	2983	0,86	92,8																																																								
~25% load	16,2	400,0 D	50	10,1	5,50	5,08	2993	0,79	92,2																																																								
Temperature rise at rated load.				[°C] [K]		Method		Measurement method																																																									
Stator winding :				38		1		1 Resistance																																																									
Frame :				18		2		2 Thermocouples																																																									
Bearing D-end :				20		2		3 Thermometer																																																									
Ambient Temperature :				22		2																																																											
<p>These tests have been carried out on motor no. 3GV1110796857001, on date 2011-10-5 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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