



Type Test Report				Date of issue: 2013.03.12																								
Customer:				Serial No.: 3GH093210T2204																								
Customer ref.:				Type: M3GP 100LC 4 Product Code: 3GGP102323-_SB Protection Type: Ex nA IIC T3 Cert. No.: VTT 12 ATEX 050X / IECEx VTT 12.0010X																								
Rating:				<table border="1"> <thead> <tr> <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>230</td> <td>D</td> <td>50</td> <td>2,2</td> <td>1450,0</td> <td>8,10</td> <td>0,78 S1</td> </tr> <tr> <td>400</td> <td>Y</td> <td>50</td> <td>2,2</td> <td>1450,0</td> <td>4,70</td> <td>0,78 S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	230	D	50	2,2	1450,0	8,10	0,78 S1	400	Y	50	2,2	1450,0	4,70	0,78 S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 85,9(100%) - 85,1(75%) - 83,4(50%)																								
Resistance Line U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				Ambient: 28,0 °C 3,88900 Ω 3,88000 Ω 3,89000 Ω		Insulation resistance at 26,6 °C R > 2000 Mohm 1000 V																						
				High-voltage test winding 2400 V		Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s 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 Y	50	2,5	0,17		1500	0,10																				
Locked rotor test		74,8 Y	50	5,1	0,34		0	0,51																				
Thermal test (100% load)	14,5	400 Y	50	4,5	2,58	2,20	1449	0,81	85,20																			
Partial load points:																												
~75% load	10,8	400 Y	50	3,8	1,95	1,65	1462	0,74	84,40																			
~50% load	7,1	400 Y	50	3,0	1,33	1,10	1475	0,63	82,60																			
~25% load	3,5	400 Y	50	2,4	0,74	0,55	1488	0,43	74,60																			
Temperature rise at rated load.				°C	[K]	Method	Measurement method																					
Stator winding :				59,3	3		1 Resistance																					
Frame :				12,6	3		2 Thermometer																					
Bearing D-end :				25,3	3		3 Thermocouples																					
Ambient Temperature :				25	3																							
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.																												
On behalf of customer																												
On behalf of manufacturer		Date of test		26.8.2009																								
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