



Type Test Report				Date of issue: 2013.03.12																								
Customer:				Serial No.: 3GH092210T3002																								
Customer ref.:				Type: M3GP 100LB 2 Product Code: 3GGP101322-_DB 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>690</td> <td>Y 50</td> <td>3,00</td> <td>2925</td> <td>3,40</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>3,00</td> <td>2925</td> <td>5,90</td> <td>0,86</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	3,00	2925	3,40	0,86	S1	400	D 50	3,00	2925	5,90	0,86	S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 85,2(100%) - 84,9(75%) - 82,8(50%)																								
Resistance Line				Ambient: 26,6 °C		Insulation resistance at 28,4 °C R > 2000 Mohm 1000 V		Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s																				
U <sub>1</sub> - V <sub>1</sub> U <sub>1</sub> - W <sub>1</sub> V <sub>1</sub> - W <sub>1</sub>				2,70700 Ω 2,70100 Ω 2,70600 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 D	50	2,3	0,26		3000	0,16																				
Locked rotor test		64,2 D	50	6,2	0,42		0	0,61																				
Thermal test ( 100% load )	9,8	400 D	50	5,7	3,55	3,00	2921	0,89	84,50																			
Partial load points:																												
~75% load	7,3	400 D	50	4,5	2,67	2,25	2941	0,85	84,20																			
~50% load	4,8	400 D	50	3,4	1,83	1,50	2961	0,77	81,90																			
~25% load	2,4	400 D	50	2,4	1,02	0,75	2979	0,60	73,80																			
Temperature rise at rated load.				°C	[K]	Method	Measurement method																					
Stator winding :				41,5	3		1 Resistance																					
Frame :				13,6	3		2 Thermometer																					
Bearing D-end :				23	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		15.6.2009																								
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