



Type Test Report				Date of issue: 2013.03.12																								
Customer:				Serial No.: 3GH103709T1104																								
Customer ref.:				Type: M3GP 90SLB 4 Product Code: 3GGP092322-_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>1,1</td> <td>1435</td> <td>3,90</td> <td>0,80 S1</td> </tr> <tr> <td>400</td> <td>Y</td> <td>50</td> <td>1,1</td> <td>1435</td> <td>2,30</td> <td>0,80 S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	230	D	50	1,1	1435	3,90	0,80 S1	400	Y	50	1,1	1435	2,30	0,80 S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 83,6(100%) - 84,5(75%) - 83,2(50%)																								
Resistance Line				Ambient: 18,7 °C		Insulation resistance at 24,8 °C		Overload																				
U ₁ - V ₁				10,90000 Ω		R > 2000 Mohm		Current 150 % 120s																				
U ₁ - W ₁				11,02000 Ω		1000 V		Torque 160 % 15s																				
V ₁ - W ₁				10,97000 Ω				Speed 120 % 120s																				
				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 Y	50	1,31	0,09		1500	0,10																				
Locked rotor test		73,6 Y	50	2,4	0,20		0	0,65																				
Thermal test (100% load)	7,3	400 Y	50	2,3	1,33	1,10	1434	0,81	83,00																			
Partial load points:																												
~75% load	5,5	400 Y	50	1,93	0,99	0,83	1453	0,74	83,50																			
~50% load	3,6	400 Y	50	1,58	0,67	0,55	1469	0,61	81,80																			
~25% load	1,8	400 Y	50	1,37	0,38	0,28	1484	0,40	73,30																			
Temperature rise at rated load.				°C	[K]	Method	Measurement method																					
Stator winding :				28,3	3		1 Resistance																					
Frame :				12,9	3		2 Thermometer																					
Bearing D-end :				18,0	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		30.9.2010																								
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