



Type Test Report				Date of issue: 2013.03.12																										
Customer:				Serial No.: 3GH103709T1104																										
Customer ref.:				Type: M3GP 90SLB 4 Product Code: 3GGP092322-_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</td> <td>50</td> <td>1,1</td> <td>1435</td> <td>1,32</td> <td>0,80</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>1,1</td> <td>1435</td> <td>2,30</td> <td>0,80</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	1,1	1435	1,32	0,80	S1	400	D	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		1000 V																						
U ₁ - W ₁				11,02000 Ω				Current 150 % 120s																						
V ₁ - W ₁				10,97000 Ω				Torque 160 % 15s																						
						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	1,31	0,09		1500	0,10																					
Locked rotor test			73,6 D	50	2,4	0,20		0	0,65																					
Thermal test (100% load)		7,3	400 D	50	2,3	1,33	1,10	1434	0,81	83,00																				
Partial load points:																														
~75% load		5,5	400 D	50	1,93	0,99	0,83	1453	0,74	83,50																				
~50% load		3,6	400 D	50	1,58	0,67	0,55	1469	0,61	81,80																				
~25% load		1,8	400 D	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																								
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain							Telephone		+34 93 728 85 00																					
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