



Type Test Report				Date of issue: 2013.03.12																								
Customer:				Serial No.: 3GH103709T1504																								
Customer ref.:				Type: M3GP 90SLD 4 Product Code: 3GGP092325-_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>1,5</td> <td>1430</td> <td>1,73</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>1,5</td> <td>1430</td> <td>3,00</td> <td>0,83</td> <td>S1</td> </tr> </tbody> </table>		V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	1,5	1430	1,73	0,83	S1	400	D	50	1,5	1430	3,00	0,83	S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 84,3(100%) - 85,6(75%) - 84,7(50%)																								
Resistance Line		Ambient: 19,9 °C		Insulation resistance at 23,9 °C R > 2000 Mohm 1000 V																								
U <sub>1</sub> - V <sub>1</sub>		7,65000 Ω		Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s																								
U <sub>1</sub> - W <sub>1</sub>		7,67000 Ω		High-voltage test winding 2400 V 60 s																								
V <sub>1</sub> - W <sub>1</sub>		7,66000 Ω																										
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	1,53	0,11		1500	0,10																				
Locked rotor test		76,4 D	50	3,3	0,28		0	0,65																				
Thermal test ( 100% load )	10,0	400 D	50	3,0	1,79	1,50	1432	0,84	83,70																			
Partial load points:																												
~75% load	7,4	400 D	50	2,5	1,34	1,13	1451	0,77	84,50																			
~50% load	4,9	400 D	50	1,99	0,90	0,75	1469	0,65	83,20																			
~25% load	2,4	400 D	50	1,68	0,49	0,38	1487	0,42	77,00																			
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																					
Stator winding :				33,0	3		1 Resistance																					
Frame :				15,7	3		2 Thermometer																					
Bearing D-end :				18,9	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		28.9.2010																								
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain						Telephone +34 93 728 85 00		Telefax +34 93 728 85 33																				

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