



Type Test Report				Date of issue: 2013.03.12																										
Customer:				Serial No.: 3GH092208T1102																										
Customer ref.:				Type: M3GP 80MC 2 Product Code: 3GGP081323-_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>1,10</td> <td>2870</td> <td>1,38</td> <td>0,8</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>1,10</td> <td>2870</td> <td>2,40</td> <td>0,8</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	1,10	2870	1,38	0,8	S1	400	D	50	1,10	2870	2,40	0,8	S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 81,8(100%) - 82,4(75%) - 80,2(50%)																										
Resistance Line				Ambient: 28,7 °C		Insulation resistance at 28,8 °C		Overload																						
U ₁ - V ₁				10,14000 Ω		R > 2000 Mohm		1000 V																						
U ₁ - W ₁				10,13000 Ω				Current 150 % 120s																						
V ₁ - W ₁				10,14000 Ω				Torque 160 % 15s																						
						High-voltage test winding		2400 V 60 s																						
								Speed 120 % 120s																						
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	1,37	0,10		3000	0,11																						
Locked rotor test		71,5 D	50	2,5	0,23		0	0,74																						
Thermal test (100% load)	3,7	400 D	50	2,3	1,34	1,10	2875	0,81	82,10																					
Partial load points:																														
~75% load	2,7	400 D	50	1,99	1,01	0,83	2909	0,73	82,00																					
~50% load	1,8	400 D	50	1,68	0,69	0,55	2942	0,59	79,30																					
~25% load	0,9	400 D	50	1,51	0,41	0,28	2971	0,39	68,90																					
Temperature rise at rated load.				[°C] [K]		Method		Measurement method																						
Stator winding :				30,9		3		1 Resistance																						
Frame :				10,9		3		2 Thermometer																						
Bearing D-end :				19,1		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 19.6.2009																										
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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