



Type Test Report				Date of issue: 2013.03.12																								
Customer:				Serial No.: 3GH092310T3004																								
Customer ref.:				Type: M3GP100LD 4 Product Code: 3GGP102324-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>1450</td> <td>3,60</td> <td>0,79</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>3,00</td> <td>1450</td> <td>6,30</td> <td>0,79</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	3,00	1450	3,60	0,79	S1	400	D 50	3,00	1450	6,30	0,79	S1
V	Hz	kW	r/min	A	cos φ	Duty																						
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 86,8(100%) - 87,0(75%) - 85,4(50%)																								
Resistance Line				Ambient: 26,8 °C		Insulation resistance at 28,7 °C		Overload																				
U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				2,68000 Ω 2,68400 Ω 2,68900 Ω		R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s 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 D	50	3,5	0,22		1500	0,09																				
Locked rotor test		72,7 D	50	6,4	0,44		0	0,54																				
Thermal test (100% load)	19,8	400 D	50	6,1	3,48	3,00	1450	0,82	86,20																			
Partial load points:																												
~75% load	14,7	400 D	50	4,9	2,61	2,25	1463	0,76	86,30																			
~50% load	9,7	400 D	50	3,9	1,77	1,50	1476	0,65	84,70																			
~25% load	4,8	400 D	50	3,0	0,96	0,75	1487	0,45	77,80																			
Temperature rise at rated load.				°C	[K]	Method		Measurement method																				
Stator winding :				37,2	3	1 Resistance		1 Resistance																				
Frame :				16,4	3	2 Thermometer		2 Thermometer																				
Bearing D-end :				26,8	3	3 Thermocouples		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		22.6.2009																						
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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