



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type:	M3GP 160MLA 4				
				Product Code:	3GGP162410-ADL				
				Protection type:	Ex nA IIC T3 Gc				
				Cert. No.:	LCIE 13 ATEX 1034 X / IECEx LCIE 13.0047 X				
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	11,0	1477	12,2	0,82	S1		
Insul.cl.F	400	D 50	11,0	1477	21,1	0,82	S1		
IP55	415	D 50	11,0	1479	20,5	0,81	S1		
Eff class IE3	440	D 60	11,0	1778	18,9	0,83	S1		
	460	D 60	11,0	1777	18,2	0,82	S1		
50Hz: IE3-91,4%(100%)-91,8%(75%)-91,1%(50%)									
60Hz: IE3-92,4%(100%)									
Resistance				Insulation resistance at 68 °C		Overload			
Line	Ambient: 21 °C			2000 MΩ	1000 V	Torque 160% 15s			
U ₁ - V ₁	0,45510 Ω					Speed 120% 120s			
U ₁ - W ₁	0,45480 Ω					Current 150% 15s			
V ₁ - W ₁	0,45550 Ω			High-voltage test winding 1900 V		60 s			
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η[%]
No load test		400,1 D	50	8,3	0,35		1498	0,06	
Locked rotor test		78,5 D	50	20,5	0,93		0	0,33	
Thermal test (100% load)	71,0	400,6 D	50	21,1	12,0	11,0	1477	0,82	92,0
Partial load points:									
~75% load	53,3	400,7 D	50	16,8	8,9	8,3	1484	0,77	92,4
~50% load	35,5	400,9 D	50	13,0	6,0	5,5	1490	0,67	91,7
~25% load	17,7	401,5 D	50	10,1	3,1	2,8	1495	0,45	87,5
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				38	1			1 Resistance	
Frame :				20	2			2 Thermocouples	
Bearing D-end :				23	2			3 Thermometer	
Rotor:				51	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3G1P141700173, on date 2014-06-03 which is identical in design with the above.									
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					
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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