



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3GP 160MLA 4					
				Product Code: 3GGP162410-ADL					
				Protection type: Ex tc IIIB/C T125C Dc					
				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		
	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		Ambient: 21 °C		Insulation resistance at 68 °C		Overload			
Line	U ₁ - V ₁	0,45510 Ω		2000 MΩ 1000 V		Torque 160% 15s			
	U ₁ - W ₁	0,45480 Ω				Speed 120% 120s			
	V ₁ - W ₁	0,45550 Ω				Current 150% 15s			
				High-voltage test winding 1900 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		400,1 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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