



Test Report				Date of issue: 20.3.2015					
				Serial No.:					
Customer:				Order No.:					
				Type: M3GP 160MLA 2					
				Product Code: 3GGP161410-ADL					
				Protection type: Ex nA IIC T3 Gc					
Customer ref.:				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	2943	11,1	0,91	S1		
Insul.cl.F	400	D 50	11	2943	19,1	0,91	S1		
IP55	415	D 50	11	2946	18,5	0,9	S1		
	440	D 60	11	3545	17,3	0,92	S1		
Eff class IE3	460	D 60	11	3549	16,6	0,91	S1		
50Hz: IE3-91,2%(100%)-92,0%(75%)-91,6%(50%)									
60Hz: IE3-91,0%(100%)									
Resistance				Insulation resistance at 70 °C		Overload			
Line	Ambient: 17 °C		2000 MΩ		1000 V		Torque 160% 15s		
U ₁ - V ₁	0,48940 Ω						Speed 120% 120s		
U ₁ - W ₁	0,48920 Ω						Current 150% 15s		
V ₁ - W ₁	0,48980 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]	η[r/min]	cos φ	η[%]
No load test		400,4 D	50	4,8	0,32		2998	0,09	
Locked rotor test		74,3 D	50	19,8	1,00		0	0,39	
Thermal test (100% load)	35,7	400,6 D	50	19,1	12,0	11,0	2943	0,91	91,5
Partial load points:									
~75% load	26,8	401,1 D	50	14,4	9,0	8,3	2960	0,90	92,2
~50% load	17,9	400,5 D	50	10,2	6,0	5,5	2974	0,85	91,9
~25% load	8,9	401,5 D	50	6,6	3,1	2,8	2988	0,68	88,5
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				47	1		1 Resistance		
Frame :				19	2		2 Thermocouples		
Bearing D-end :				25	2		3 Thermometer		
Rotor:				62	3				
Ambient Temperature :		25			2				
These tests have been carried out on motor no. 3G1P141700170, on date 2014-05-26 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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