



Test Report				Date of issue: 20.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 160MLA 2					
				Product Code: 3GGP161410-ADL					
				Protection type: Ex tb IIIB/C T125C Db					
				Cert. No.: LCIE 13 ATEX 3067 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		
IP65	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 <sub>1</sub> - V <sub>1</sub> 0,48940 Ω						Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub> 0,48920 Ω						Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub> 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				
<p>These tests have been carried out on motor no. 3G1P141700170, on date 2014-05-26 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p>Tested by Asea Brown Boveri, S.A., Fabrica Motores, 08192 Sant Quirze del Valles, Spain</p> <p>Telephone +34 93 728 85 00 Telefax +34 93 728 85 33</p>									

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