



Test Report				Date of issue: 1.6.2015					
				Serial No.:					
				Type:	M3GP 160MLA 6				
				Product Code:	3GGP163410-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	7,5	975	9,1	0,77	S1		
Insul.cl.F	400	D 50	7,5	975	15,7	0,77	S1		
IP65	415	D 50	7,5	976	15,4	0,76	S1		
Eff class IE3	440	D 60	7,5	1176	14,0	0,78	S1		
	460	D 60	7,5	1179	13,5	0,77	S1		
50Hz: IE3-89,1%(100%)-90,0%(75%)-90,0%(50%)									
60Hz: IE3-91,0%(100%)									
Resistance				Insulation resistance at 83 °C		Overload			
Line	Ambient: 25 °C			2000 MΩ 1000 V		Torque 160% 15s Speed 120% 120s Current 150% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,95400 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,95500 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,95600 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		400,1 D	50	7,9	0,27		998	0,05	
Locked rotor test		100,2 D	50	15,9	0,96		0	0,35	
Thermal test (100% load)	73,5	400,1 D	50	15,7	8,4	7,5	975	0,77	89,1
Partial load points:									
~75% load	55,2	400,7 D	50	12,7	6,3	5,6	982	0,71	90,0
~50% load	36,7	401,6 D	50	10,1	4,2	3,8	988	0,59	90,0
~25% load	18,3	401,6 D	50	8,3	2,2	1,9	994	0,38	86,2
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				50	1		1 Resistance		
Frame :				28	2		2 Thermocouples		
Bearing D-end :				23	2		3 Thermometer		
Rotor:				69	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700175, on date 2014-07-21 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>									
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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