



Test Report				Date of issue: 1.6.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3GP 180MLA 6							
				Product Code: 3GGP183410-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	15,0	979	17,4	0,79	S1	
Insul.cl.F				400	D 50	15,0	979	30,1	0,79	S1	
IP55				415	D 50	15,0	980	29,6	0,77	S1	
Eff class IE3				440	D 60	15,0	1180	27,0	0,79	S1	
				460	D 60	15,0	1182	26,1	0,78	S1	
				50Hz: IE3-91,2%(100%)-91,9%(75%)-91,6%(50%)							
				60Hz: IE3-91,7%(100%)							
Resistance				Insulation resistance at 80 °C				Overload			
Line				2000 MΩ				Torque 160% 15s			
Ambient: 24 °C				1000 V				Speed 120% 120s			
U <sub>1</sub> - V <sub>1</sub>				0,37530 Ω				Current 150% 15s			
U <sub>1</sub> - W <sub>1</sub>				0,37430 Ω							
V <sub>1</sub> - W <sub>1</sub>				0,37590 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		400,4 D	50	13,2	0,44		998	0,05			
Locked rotor test		102,1 D	50	30,9	1,66		0	0,30			
Thermal test (100% load)	146,7	400,2 D	50	30,1	16,4	15,0	979	0,79	91,4		
Partial load points:											
~75% load	110,0	400,6 D	50	24,0	12,2	11,3	985	0,73	92,1		
~50% load	73,4	400,1 D	50	18,8	8,2	7,5	990	0,63	91,8		
~25% load	36,4	400,7 D	50	14,9	4,3	3,8	995	0,41	88,3		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				48	1			1 Resistance			
Frame :				23	2			2 Thermocouples			
Bearing D-end :				24	2			3 Thermometer			
Rotor :				71	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3G1P141700180, on date 2014-06-20 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											
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