



Test Report				Date of issue: 20.3.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3GP 160MLC 2							
				Product Code: 3GGP161430-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	18,5	2949	18,2	0,90	S1
Insul.cl.F				400	D	50	18,5	2949	32,0	0,90	S1
IP55				415	D	50	18,5	2952	31,1	0,89	S1
				440	D	60	18,5	3551	28,8	0,90	S1
Eff class IE3				460	D	60	18,5	3555	27,9	0,89	S1
				50Hz: IE3-92,4%(100%)-93,0%(75%)-92,6%(50%) 60Hz: IE3-91,7%(100%)							
Resistance				Insulation resistance at 80 °C				Overload			
Line				Ambient: 19 °C				Torque 160% 15s			
U ₁ - V ₁				0,24210 Ω				Speed 120% 120s			
U ₁ - W ₁				0,24240 Ω				Current 150% 15s			
V ₁ - W ₁				0,24200 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	9,5	0,43		2998	0,07			
Locked rotor test		57,8 D	50	31,2	1,36		0	0,43			
Thermal test (100% load)	60,0	401,1 D	50	32,0	19,9	18,5	2949	0,90	93,0		
Partial load points:											
~75% load	44,9	401,7 D	50	24,7	14,9	13,9	2962	0,87	93,5		
~50% load	29,9	402,5 D	50	18,0	9,9	9,3	2975	0,80	93,2		
~25% load	15,0	402,5 D	50	12,5	5,1	4,6	2989	0,59	90,4		
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method				
Stator winding :				55	1		1 Resistance				
Frame :				21	2		2 Thermocouples				
Bearing D-end :				29	2		3 Thermometer				
Rotor:				76	3						
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3G1P141700172, on date 2014-05-28 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											
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