



Test Report				Date of issue: 28.8.2013							
				Serial No.: 0751-010227549							
				Type: M3GP 160MLE 4 B3							
				Product Code: 3GGP162450-ADD							
				Protection type: Ex nA II C T3 Gc							
				Cert. No.: LCIE 13 ATEX 1034 X IECEx LCIE 13.0047X							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				400	D	50	15	1467	28	0,84	S1
Insul.cl.F				415	D	50	15	1471	27,6	0,82	S1
IP55				690	Y	50	15	1467	16	0,84	S1
Eff class IE2				400 V 50Hz : IE2 - 92.0(100%) - 92.4(75%) - 92.1(50%)							
Resistance				Ambient: 23,5 °C				Insulation resistance at 49,0 °C		Overload	
Line				10000 MΩ				1000 V		Torque 160% 15s	
U ₁ - V ₁				0,34390 Ω							
U ₁ - W ₁				0,34380 Ω							
V ₁ - W ₁				0,34370 Ω							
				High-voltage test winding				1900 V		1 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	11,17	0,46		1500	0,06			
Locked rotor test		87,3 D	50	30,1	1,70		0	0,37			
Thermal test (100% load)	97,7	400,0 D	50	28,4	16,4	15,0	1464	0,83	91,6		
Partial load points:											
~75% load	73,2	400,1 D	50	22,5	12,3	11,3	1474	0,79	92,0		
~50% load	48,9	400,1 D	50	17,3	8,30	7,59	1483	0,69	91,4		
~25% load	24,5	400,0 D	50	13,1	4,37	3,82	1490	0,48	87,4		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				45,8	1			1 Resistance			
Frame :				27,0	2			2 Thermometer			
Bearing D-end :				29,0	2			3 Thermocouples			
Rotor:				74,5	3						
Ambient Temperature :				25,0	2						
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		9.6.2008					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone		+358 10 2211	
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