



Test Report				Date of issue: 28.8.2013							
				Serial No.: 0908-010290582							
				Type: M3GP 160MLC 2 B3							
				Product Code: 3GGP161430-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	18,5	2934	32,3	0,90	S1	
Insul.cl.F				415	D 50	18,5	2940	31,7	0,88	S1	
IP55				690	Y 50	18,5	2934	18,7	0,90	S1	
Eff class IE2				50Hz : IE2 - 91.8(100%) - 92.2(75%) - 91.8(50%)							
Resistance				Insulation resistance at 54,0 °C				Overload			
Line				Ambient: 20,0 °C				10000 MΩ 1000 V			
U ₁ - V ₁				0,25830 Ω				Torque 160% 15s			
U ₁ - W ₁				0,25830 Ω							
V ₁ - W ₁				0,25870 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		400,2 D	50	8,98	0,50		3000	0,08			
Locked rotor test		75,3 D	50	33,0	1,85		0	0,43			
Thermal test (100% load)	60,2	400,0 D	50	32,5	20,2	18,5	2923	0,90	91,6		
Partial load points:											
~75% load	45,0	400,2 D	50	24,8	15,0	13,9	2949	0,87	92,4		
~50% load	30,3	400,1 D	50	17,8	10,0	9,25	2969	0,81	92,3		
~25% load	15,5	400,1 D	50	12,0	5,19	4,62	2987	0,63	89,0		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				69,6	69,6	1		1 Resistance			
Frame :				32,1	32,1	2		2 Thermometer			
Bearing D-end :				42,8	42,8	2		3 Thermocouples			
Ambient Temperature :				25,0	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				27.3.2009			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland							Telephone +358 10 2211 Telefax +358 10 22 47372				

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