



Test Report				Date of issue: 28.8.2013					
				Serial No.: 3GF10053026					
				Type: M3GP 160MLF 4 IMV1/IM3011					
				Product Code: 3GGP162460-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	1469	35	0,83	S1		
Insul.cl.F	415	D 50	18,5	1471	34,6	0,81	S1		
IP56	690	Y 50	18,5	1469	20,3	0,83	S1		
Eff class IE2 400 V 50Hz : IE2 - 91.7(100%) - 92.1(75%) - 91.4(50%)									
Resistance				Insulation resistance at 39,0 °C		Overload			
Line Ambient: 21,0 °C				6000 MΩ 1000 V		Torque 160% 15s			
U ₁ - V ₁ 0,26920 Ω									
U ₁ - W ₁ 0,26930 Ω									
V ₁ - W ₁ 0,26920 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	14,5	0,61		1500	0,06	
Locked rotor test		78,0 D	50	35,0	1,71		0	0,36	
Thermal test (100% load)	120,3	400,1 D	50	35,0	20,2	18,5	1466	0,83	91,4
Partial load points:									
~75% load	90,5	400,6 D	50	27,8	15,1	13,9	1475	0,79	91,9
~50% load	60,1	400,1 D	50	21,4	10,1	9,25	1484	0,69	91,2
~25% load	30,1	400,2 D	50	16,4	5,32	4,62	1492	0,47	87,0
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				69,9	1	1 Resistance		1 Resistance	
Frame :				35,9	2	2 Thermometer		2 Thermometer	
Bearing D-end :				37,5	2	3 Thermocouples		3 Thermocouples	
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		15.12.2010					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211		Telefax +358 10 22 47372	

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