



Test Report				Date of issue: 28.8.2013							
				Serial No.: 3GF10019309							
				Type: M3GP 180MLA 4 IMV1/IM3011							
				Product Code: 3GGP182410-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	1474	35,1	0,83	S1
Insul.cl.F				415	D	50	18,5	1476	34,6	0,81	S1
IP55				690	Y	50	18,5	1474	20,3	0,83	S1
Eff class IE2				400 V 50Hz : IE2 - 91.6(100%) - 92.0(75%) - 91.2(50%)							
Resistance				Ambient: 21,0 °C				Insulation resistance at 50,0 °C		Overload	
Line								13000 MΩ 1000 V		Torque 160% 15s	
U ₁ - V ₁				0,26710 Ω							
U ₁ - W ₁				0,26710 Ω							
V ₁ - W ₁				0,26660 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	13,9	0,54		1500	0,06			
Locked rotor test		94,4	D 50	36,0	2,09		0	0,36			
Thermal test (100% load)	119,9	400,3	D 50	35,8	20,3	18,5	1472	0,82	91,3		
Partial load points:											
~75% load	88,7	400,2	D 50	28,0	15,1	13,9	1481	0,78	92,1		
~50% load	61,0	400,1	D 50	21,4	10,1	9,25	1487	0,68	91,7		
~25% load	29,5	400,3	D 50	16,2	5,24	4,62	1495	0,47	88,2		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				58,2	1	1		1 Resistance			
Frame :				29,2	2	2		2 Thermometer			
Bearing D-end :				32,8	2	2		3 Thermocouples			
Rotor:				73,8	3	3					
Ambient Temperature :				25,0	2	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		13.4.2010						
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone		+358 10 2211	
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