



Test Report				Date of issue: 28.8.2013					
				Serial No.: 3GF12142686					
				Order No.: 736042-2					
				Type: M3GP 250SMB 6 IMB3/IM1001					
				Product Code: 3GGP253220-ADD					
				Protection type: Ex nA II C T3 Gc					
				Cert. No.: LCIE 13 ATEX 1034 X <u>IECEx LCIE 13.0047X</u>					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor Insul.cl.F IP55 AMB -20°C...+45°C Eff class IE3		400	D 50	37	989	72	0,81	S1	
		50Hz : IE2 - 93.4(100%) - 93.2(75%) - 91.9(50%)							
Resistance			Ambient: 23 °C		Insulation resistance at 36 °C		Overload		
Line					20000 MΩ 1000 V		Torque 160% 15s		
U ₁ - V ₁			0,09402 Ω						
U ₁ - W ₁			0,09413 Ω						
V ₁ - W ₁			0,09395 Ω						
				High-voltage test winding		2900 V		1 s	
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400,0 D	50	28,5	1,03		998	0,05	
Locked rotor test		72,3 D	50	72,0	3,22		0	0,36	
Thermal test (100% load)	357,3	400,1 D	50	69,9	39,6	37,0	989	0,82	93,5
Partial load points:									
~75% load	267,8	400,0 D	50	55,3	29,6	27,8	993	0,77	93,7
~50% load	178,6	400,0 D	50	42,4	19,9	18,5	996	0,68	93,0
~25% load	89,2	400,0 D	50	32,4	10,4	9,25	998	0,46	89,2
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				43	1			1 Resistance	
Frame :				23	2			2 Thermometer	
Bearing D-end :				34	2			3 Thermocouples	
Rotor:				61	3				
Ambient Temperature :				25	2				
Vibration [mm/s]:		↓	→			Starting current (I _S / I _N) : 7,46			
D-end		0,20	0,25			Locked rotor torque (T _L / T _N) : 3,30			
N-end		0,45	0,50						
Axial		0,25							
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		10.1.2013				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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