



Test Report				Date of issue: 28.8.2013					
				Serial No.: 3GF11094437					
				Type: M3GP 160MLA 8 IMB3/IM1001					
				Product Code: 3GGP164410-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	4	722	9,3	0,71	S1	
Insul.cl.F		415	D 50	4	724	9,1	0,70	S1	
IP55		690	Y 50	4	722	5,4	0,71	S1	
400 V 50Hz : 86.7(100%) - 87.4(75%) - 86.6(50%)									
Resistance			Ambient: 22,0 °C		Insulation resistance at 31,5 °C		Overload		
Line					46000 MΩ 1000 V		Torque 160 % 15s		
U ₁ - V ₁			1,94900 Ω						
U ₁ - W ₁			1,94900 Ω						
V ₁ - W ₁			1,94800 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]	η[r/min]	cos φ	η [%]
No load test		400,1 D	50	5,60	0,28		748	0,07	
Locked rotor test		127,9 D	50	9,29	0,80		0	0,39	
Thermal test (100% load)	52,9	400,0 D	50	10,3	4,91	4,00	705	0,69	81,4
Partial load points:									
~75% load	39,6	400,0 D	50	8,43	3,62	3,00	719	0,62	82,9
~50% load	26,3	400,0 D	50	6,96	2,43	2,00	731	0,50	82,3
~25% load	13,1	400,0 D	50	5,93	1,32	1,00	741	0,32	75,7
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				44,5	1	1		Resistance	
Frame :				27,7	2	2		Thermometer	
Bearing D-end :				26,5	2	3		Thermocouples	
Rotor :				49,2	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		30.3.2012					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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