



Test Report				Date of issue: 28.8.2013							
Customer: ABB OY				Serial No.: 3GF11094431							
				Order No.: 599608-2							
				Type: M3GP 160MLB 2 IMB3/IM1001							
				Product Code: 3GGP161420-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				690	Y 50	15	2929	15,5	0,89	S1	
Insul.cl.F				400	D 50	15	2929	26,6	0,89	S1	
IP55				415	D 50	15	2935	26,5	0,86	S1	
Eff class IE2				50Hz : IE2 - 91.2(100%) - 91.9(75%) - 91.4(50%)							
Resistance				Ambient: 17,5 °C				Insulation resistance at 31,5 °C		Overload	
Line								47000 MΩ 1000 V		Torque 160 % 15s	
U ₁ - V ₁				0,32560 Ω							
U ₁ - W ₁				0,32580 Ω							
V ₁ - W ₁				0,32590 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		400,1 D	50	8,75	0,58		2998	0,10			
Locked rotor test		72,2 D	50	26,6	1,40		0	0,42			
Thermal test (100% load)	48,9	399,9 D	50	27,1	16,6	15,0	2933	0,88	90,6		
Partial load points:											
~75% load	36,7	400,0 D	50	21,0	12,4	11,3	2954	0,85	91,1		
~50% load	24,4	400,0 D	50	15,5	8,31	7,50	2969	0,77	90,2		
~25% load	12,2	400,0 D	50	11,0	4,39	3,75	2986	0,58	85,3		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :					58,8	1		1 Resistance			
Frame :					22,0	2		2 Thermometer			
Bearing D-end :					27,9	2		3 Thermocouples			
Rotor:					78,2	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			13.12.2011				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone +358 10 2211			
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