



Test Report				Date of issue: 28.8.2013					
				Serial No.: 3GF11094425					
				Type: M3GP 160MLG 4 IMB3/IM1001					
				Product Code: 3GGP162470-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	22	1466	25	0,81	S1	
Insul.cl.F		400	D 50	22	1466	43,1	0,81	S1	
IP55		415	D 50	22	1469	42,8	0,79	S1	
Eff class IE1		50Hz : IE1 - 90.8(100%) - 91.1(75%) - 90.4(50%)							
Resistance			Ambient: 22,0 °C		Insulation resistance at 35,0 °C		Overload		
Line					14000 MΩ 1000 V		Torque 160 % 15s		
U <sub>1</sub> - V <sub>1</sub>			0,22430 Ω						
U <sub>1</sub> - W <sub>1</sub>			0,22430 Ω						
V <sub>1</sub> - W <sub>1</sub>			0,22460 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		399,9 D	50	21,1	0,86		1498	0,06	
Locked rotor test		83,7 D	50	43,1	2,53		0	0,41	
Thermal test (100% load)	143,3	400,1 D	50	44,0	24,3	22,0	1462	0,80	90,4
Partial load points:									
~75% load	107,5	400,0 D	50	35,6	18,2	16,5	1472	0,74	90,7
~50% load	71,7	400,0 D	50	28,3	12,2	11,0	1481	0,62	89,9
~25% load	35,9	400,0 D	50	22,9	6,48	5,50	1489	0,41	84,9
Temperature rise at rated load.				°C	K	Method		Measurement method	
Stator winding :				81,0	1	1 Resistance			
Frame :				40,0	2	2 Thermometer			
Bearing D-end :				48,9	2	3 Thermocouples			
Rotor :				115,1	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		6.2.2012					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211		Telefax +358 10 22 47372	

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