



Test Report				Date of issue: 28.8.2013							
				Serial No.: 3GF11065346							
				Type: M3GP 160MLC 4 IMB5/IM3001							
				Product Code: 3GGP162430-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	11	1470	21,2	0,82	S1	
Insul.cl.F				415	D 50	11	1473	20,9	0,80	S1	
IP55				690	Y 50	11	1470	12,3	0,82	S1	
Eff class IE2				400 V 50Hz : IE2 - 91.2(100%) - 91.5(75%) - 90,6(50%)							
Resistance				Insulation resistance at 44,5 °C				Overload			
Line				Ambient: 20,0 °C				Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>				0,49860 Ω				26000 MΩ 1000 V			
U <sub>1</sub> - W <sub>1</sub>				0,49880 Ω				High-voltage test winding 1900 V 60 s			
V <sub>1</sub> - W <sub>1</sub>				0,49870 Ω							
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		400,0 D	50	9,51	0,50		1498	0,08			
Locked rotor test		77,6 D	50	21,2	1,07		0	0,38			
Thermal test (100% load)	71,5	400,1 D	50	21,5	12,1	11,0	1471	0,81	90,6		
Partial load points:											
~75% load	53,6	400,1 D	50	17,3	9,10	8,25	1479	0,76	90,7		
~50% load	35,4	400,1 D	50	13,6	6,15	5,50	1486	0,65	89,4		
~25% load	17,5	400,0 D	50	10,8	3,29	2,75	1492	0,44	83,5		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				45,8	1	1 Resistance		1 Resistance			
Frame :				21,0	2	2 Thermometer		2 Thermometer			
Bearing D-end :				18,7	2	3 Thermocouples		3 Thermocouples			
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		29.3.2011						
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone		+358 10 2211	
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