



Test Report				Date of issue: 28.8.2013					
				Serial No.: 0925-010304200					
				Type: M3GP 225SMB 4 B3					
				Product Code: 3GGP222220-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	37	1480	69	0,84	S1		
Insul.cl.F	415	D 50	37	1482	67	0,83	S1		
IP55	690	Y 50	37	1480	40	0,84	S1		
Eff class IE2 400 V 50Hz : IE2 - 93.6(100%) - 93,9(75%) - 93.4(50%)									
Resistance				Insulation resistance at 44,0 °C		Overload			
Line	Ambient: 21,0 °C			10000 MΩ 1000 V		Torque 160 % 15s			
U ₁ - V ₁	0,09732 Ω								
U ₁ - W ₁	0,09729 Ω								
V ₁ - W ₁	0,09725 Ω								
				High-voltage test winding 1900 V		60 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	23,8	0,95		1500	0,06	
Locked rotor test		79,2 D	50	69,1	3,59		0	0,38	
Thermal test (100% load)	238,8	400,1 D	50	67,8	39,7	37,0	1479	0,84	93,3
Partial load points:									
~75% load	178,9	400,1 D	50	52,8	29,7	27,8	1484	0,81	93,6
~50% load	119,4	400,2 D	50	39,5	19,9	18,5	1489	0,73	93,1
~25% load	59,6	400,2 D	50	28,8	10,3	9,25	1495	0,52	89,7
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method	
Stator winding :		59,7		1		1 Resistance		1 Resistance	
Frame :		35,7		2		2 Thermometer		2 Thermometer	
Bearing D-end :		40,5		2		3 Thermocouples		3 Thermocouples	
Rotor:		94,2		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		11.3.2010					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211		Telefax +358 10 22 47372	

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