



Test Report				Date of issue: 17.3.2015					
				Serial No.:					
				Type: M3GP 225SMA 4 IMB3					
				Product code: 3GGP222210-ADL					
				Protection type: Ex nA IIC T3 Gc					
				Cert. No.: LCIE 13 ATEX 1034 X/		IECEX LCIE 13.0047 X			
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	37	1482	39,8	0,83	S1	
Insul.cl.F		400	D 50	37	1482	68,9	0,83	S1	
IP55		415	D 50	37	1483	67,7	0,81	S1	
		440	D 60	37	1781	61,6	0,84	S1	
		460	D 60	37	1783	59,3	0,83	S1	
50Hz: IE3-93.9%(100%)-94.1%(75%)-93.8%(50%)									
60Hz: IE3-94,5%(100%)									
Resistance				Insulation resistance at 40 °C			Overload		
Line		Ambient: 22 °C		2300 MΩ		1000 V		Torque 160% 15s	
U ₁ - V ₁		0,09531 Ω							
U ₁ - W ₁		0,09537 Ω							
V ₁ - W ₁		0,09549 Ω							
				High-voltage test winding		2400 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		400,1 D	50	26,6	0,84		1498	0,05	
Locked rotor test		74,3 D	50	67,7	3,24		0	0,37	
Thermal test (100% load)	238,6	400,0 D	50	68,9	39,5	37,0	1482	0,83	93,7
Partial load points:									
~75% load	178,9	400,0 D	50	54,2	29,5	27,8	1485	0,79	93,9
~50% load	119,2	400,0 D	50	41,2	19,8	18,5	1490	0,69	93,6
~25% load	59,5	400,0 D	50	31,1	10,2	9,25	1496	0,47	90,8
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
		Stator winding :		75	1			1 Resistance	
		Frame :		48	2			2 Thermocouples	
		Bearing D-end :		54	2			3 Thermometer	
		Ambient Temperature :		25	2				
These tests have been carried out on motor no. 3G1P141700187, on date 2014-10-03 which is identical in design with the above.									
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					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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