



Test Report				Date of issue: 28.8.2013					
Customer: ABB OY				Serial No.: 3GF11094433					
Order No.: 599608-9				Type: M3GP 225SMD 2 IMB3/IM1001					
Product Code: 3GGP221240-ADD				Protection type: Ex nA II C T3 Gc					
Cert. No.: LCIE 13 ATEX 1034 X				IECEX LCIE 13.0047X					
Marine Cert. No.:									
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	67	2966	69,4	0,86	S1		
Insul.cl.F	400	D 50	67	2966	119	0,86	S1		
IP55	415	D 50	67	2968	118	0,84	S1		
Eff class IE2		50Hz : IE2 - 93.9(100%) - 93.7(75%) - 92,6(50%)							
Resistance Line			Ambient: 21,0 °C		Insulation resistance at 49,5 °C		Overload		
U ₁ - V ₁			0,03805 Ω		6000 MΩ 1000 V		Torque 160 % 15s		
U ₁ - W ₁			0,03805 Ω						
V ₁ - W ₁			0,03804 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		400,0 D	50	38,5	1,95		2998	0,07	
Locked rotor test		71,9 D	50	119,0	5,15		0	0,35	
Thermal test (100% load)	215,7	400,0 D	50	120,5	71,3	67,0	2964	0,85	94,0
Partial load points:									
~75% load	161,6	400,1 D	50	93,8	53,5	50,3	2976	0,82	94,0
~50% load	107,8	400,0 D	50	69,5	36,0	33,5	2985	0,75	93,1
~25% load	53,7	400,0 D	50	49,5	18,9	16,8	2990	0,55	88,8
Temperature rise at rated load.				°C	K	Method		Measurement method	
Stator winding :				76,2	1	1 Resistance			
Frame :				36,0	2	2 Thermometer			
Bearing D-end :				55,0	2	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		19.12.2011					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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