



Test Report				Date of issue: 28.8.2013					
Customer: ABB OY				Serial No.: 3GF11094414					
Order No.: 599608-8				Type: M3GP 225SMC 2 IMB3/IM1001					
Product Code: 3GGP221230-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	55	2965	55,7	0,88	S1		
Insul.cl.F	400	D 50	55	2965	96	0,88	S1		
IP55	415	D 50	55	2968	93,5	0,87	S1		
Eff class IE2		50Hz : IE2 - 93.9(100%) - 93.9(75%) - 92.9(50%)							
Resistance			Insulation resistance at 45,5 °C		Overload				
Line			329 MΩ		1000 V		Torque 160 % 15s		
Ambient: 21,0 °C									
U <sub>1</sub> - V <sub>1</sub>			0,05060 Ω						
U <sub>1</sub> - W <sub>1</sub>			0,05068 Ω						
V <sub>1</sub> - W <sub>1</sub>			0,05059 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]	n[r/min]	cos φ	η [%]
No load test		400,0 D	50	25,3	1,30		2998	0,07	
Locked rotor test		74,1 D	50	96,0	4,18		0	0,34	
Thermal test ( 100% load )	177,2	400,1 D	50	95,8	58,3	55,0	2963	0,88	94,4
Partial load points:									
~75% load	132,8	400,0 D	50	73,4	43,6	41,3	2974	0,86	94,6
~50% load	88,4	400,0 D	50	52,7	29,3	27,5	2983	0,80	94,0
~25% load	44,2	400,1 D	50	35,0	15,2	13,8	2991	0,63	90,6
Temperature rise at rated load.			°C	[K]	Method		Measurement method		
Stator winding :			60,9	1	1 Resistance		1 Resistance		
Frame :			23,1	2	2 Thermometer		2 Thermometer		
Bearing D-end :			43,4	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		17.12.2011					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211			
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