



Test Report				Date of issue: 4.6.2014					
				Serial No.: 3GF11094409					
				Type: M3KP 225SMC 6 IMB3/IM1001					
				Product Code: 3GKP223230-ADG					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 10 ATEX 3057X / IECEx LCI 04.0005X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3~Motor	690	Y 50	37	983	40,5	0,83	S1		
Insul.cl.F	400	D 50	37	983	69,8	0,83	S1		
IP55	415	D 50	37	984	68	0,82	S1		
Eff class IE1		50Hz : IE1 - 92.1(100%) - 92.5(75%) - 92.1(50%)							
Resistance			Ambient: 20,0 °C		Insulation resistance at 44,0 °C		Overload		
Line			3000 MΩ		1000 V		Torque 160 % 15s		
U <sub>1</sub> - V <sub>1</sub>			0,13769 Ω						
U <sub>1</sub> - W <sub>1</sub>			0,13790 Ω						
V <sub>1</sub> - W <sub>1</sub>			0,13775 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	0,99		998	0,06	
Locked rotor test		87,0 D	50	69,7	4,14		0	0,39	
Thermal test ( 100% load )	359,5	400,2 D	50	69,6	40,3	37,0	985	0,84	91,8
Partial load points:									
~75% load	270,1	400,1 D	50	54,0	30,1	27,8	989	0,80	92,2
~50% load	179,8	400,1 D	50	40,2	20,1	18,5	994	0,72	92,2
~25% load	89,7	400,1 D	50	29,4	10,4	9,3	998	0,51	89,0
Temperature rise at rated load.			°C	K	Method		Measurement method		
Stator winding :			72,7	72,7	1		1 Resistance		
Frame :			32,7	32,7	2		2 Thermometer		
Bearing D-end :			50,1	50,1	2		3 Thermocouples		
Ambient Temperature :			25,0		2				
						Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 6,82			
						Locked rotor torque (T <sub>L</sub> / T <sub>N</sub> ) : 2,97			
						Breakdown torque (T <sub>b</sub> / T <sub>N</sub> ) : 2,77			
						Pull-up torque (T <sub>u</sub> / T <sub>N</sub> ) : 2,42			
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		6.2.2012				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211			
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