



Test Report				Date of issue: 4.6.2014					
				Serial No.: 3GF11094420					
				Order No.: 599608-12					
				Type: M3KP 225SMD 4 IMB3/IM1001					
				Product Code: 3GKP222240-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	55	1483	58,8	0,83	S1		
Insul.cl.F	400	D 50	55	1483	101	0,83	S1		
IP55	415	D 50	55	1484	98,9	0,82	S1		
Eff class IE2		50Hz : IE2 - 94,3(100%) - 94,5(75%) - 93.9(50%)							
Resistance			Ambient: 21,0 °C		Insulation resistance at 52,5 °C		Overload		
Line			1000 MΩ		1000 V		Torque 160 % 15s		
U <sub>1</sub> - V <sub>1</sub>			0,05349 Ω						
U <sub>1</sub> - W <sub>1</sub>			0,05359 Ω						
V <sub>1</sub> - W <sub>1</sub>			0,05364 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	40,4	1,39		1498	0,05	
Locked rotor test		72,9 D	50	101,0	4,80		0	0,38	
Thermal test ( 100% load )	354,2	400,1 D	50	102,4	58,7	55,0	1481	0,83	93,7
Partial load points:									
~75% load	264,6	400,1 D	50	80,7	43,9	41,3	1485	0,79	93,9
~50% load	177,4	400,0 D	50	61,6	29,5	27,5	1491	0,69	93,3
~25% load	88,5	400,0 D	50	46,8	15,3	13,8	1494	0,47	89,8
Temperature rise at rated load.			[°C]		[K]		Method		Measurement method
Stator winding :			70,5		1				1 Resistance
Frame :			35,7		2				2 Thermometer
Bearing D-end :			55,3		2				3 Thermocouples
Ambient Temperature :			25,0		2				
Vibration:		D-end	↓ 0,65	→ 0,65	Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 7,63				
		N-end	1,10	1,00	Locked rotor torque (T <sub>I</sub> / T <sub>N</sub> ) : 3,80				
		Axial	0,70		Breakdown torque (T <sub>b</sub> / T <sub>N</sub> ) : 3,09				
					Pull-up torque (T <sub>u</sub> / T <sub>N</sub> ) : 2,52				
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		18.12.2011				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211			
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