



Test Report				Date of issue: 17.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3KP 225SMB 4					
				Product Code: 3GKP222220-ADL					
				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	45	1482	47,6	0,84	S1		
Insul.cl.F	400	D 50	45	1482	82,3	0,84	S1		
IP55	415	D 50	45	1483	81,0	0,82	S1		
	440	D 60	45	1782	73,4	0,85	S1		
Eff class IE3	460	D 60	45	1784	71,8	0,83	S1		
50Hz: IE3-94,2%(100%)-94,4%(75%)-94,0%(50%)									
60Hz: IE3-95,0%(100%)									
Resistance				Insulation resistance at 88 °C		Overload			
Line	Ambient: 20 °C			2000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,06820 Ω					Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub>	0,06830 Ω					Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub>	0,06820 Ω								
				High-voltage test winding 1900 V		60 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		400,7 D	50	31,3	0,94		1498	0,04	
Locked rotor test		70,4 D	50	81,0	3,46		0	0,35	
Thermal test (100% load)	290,4	400,3 D	50	82,3	47,8	45,0	1482	0,84	94,2
Partial load points:									
~75% load	217,2	400,1 D	50	64,8	35,7	33,8	1486	0,80	94,4
~50% load	145,3	400,6 D	50	49,2	23,9	22,5	1490	0,70	94,0
~25% load	72,5	400,4 D	50	37,0	12,3	11,3	1495	0,48	91,2
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				63	1			1 Resistance	
Frame :				43	2			2 Thermocouples	
Bearing D-end :				43	2			3 Thermometer	
Rotor:				92	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3G1P141700188, on date 2014-10-16 which is identical in design with the above.						Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 7,99			
						Locked rotor torque (T <sub>L</sub> / T <sub>N</sub> ) : 3,16			
						Pull-up torque (T <sub>U</sub> / T <sub>N</sub> ) : 2,42			
						Breakdown torque (T <sub>B</sub> / T <sub>N</sub> ) : 3,46			
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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