



Test Report				Date of issue: 17.3.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3KP 225SMA 2					
				Product Code: 3GKP221210-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	2968	46	0,87	S1		
Insul.cl.F	400	D 50	45	2968	79,6	0,87	S1		
IP55	415	D 50	45	2970	78,3	0,85	S1		
	440	D 60	45	3568	71,8	0,88	S1		
Eff class IE3	460	D 60	45	3570	67,4	0,89	S1		
50Hz: IE3-94,0%(100%)-94,0%(75%)-93,0%(50%)									
60Hz: IE3-93,6%(100%)									
Resistance				Insulation resistance at 39 °C		Overload			
Line	Ambient: 23 °C			2000 MΩ 1000 V		Torque 160% 15s			
U ₁ - V ₁	0,06568 Ω					Speed 120% 120s			
U ₁ - W ₁	0,06572 Ω					Current 150% 15s			
V ₁ - W ₁	0,06567 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		400,0 D	50	21,5	1,25		2998	0,08	
Locked rotor test		71,4 D	50	78,5	3,56		0	0,37	
Thermal test (100% load)	144,8	400,2 D	50	79,6	47,9	45,0	2968	0,87	94,1
Partial load points:									
~75% load	108,6	400,0 D	50	61,1	35,9	33,8	2977	0,85	94,1
~50% load	72,2	400,0 D	50	44,1	24,1	22,5	2985	0,79	93,2
~25% load	36,3	400,0 D	50	29,6	12,6	11,3	2992	0,62	89,2
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				57	1			1 Resistance	
Frame :				35	2			2 Thermocouples	
Bearing D-end :				34	2			3 Thermometer	
Rotor:				54	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700186, on date 2014-10-03 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p>									
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