



Test Report				Date of issue: 16.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3KP 200MLA 2					
				Product Code: 3GKP201410-ADL					
				Protection type: Ex d IIB T4 Gb					
				Cert. No.: LCIE 10 ATEX 3061X					
				IECEX LCI 04.0011X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	30,0	2957	30,5	0,88	S1		
Insul.cl.F	400	D 50	30,0	2957	52,4	0,88	S1		
IP55	415	D 50	30,0	2961	51,1	0,87	S1		
	440	D 60	30,0	3559	47,2	0,89	S1		
Eff class IE3	460	D 60	30,0	3563	45,7	0,88	S1		
50Hz: IE3-93,3%(100%)-93,8%(75%)-93,6%(50%)									
60Hz: IE3-92,4%(100%)									
Resistance				Insulation resistance at 89 °C		Overload			
Line	Ambient: 23 °C			2000 MΩ 1000 V		Torque 160% 15s			
U ₁ - V ₁	0,12650 Ω					Speed 120% 120s			
U ₁ - W ₁	0,12670 Ω					Current 150% 15s			
V ₁ - W ₁	0,12630 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		400,5 D	50	13,3	0,61		2998	0,07	
Locked rotor test		72,9 D	50	52,3	2,30		0	0,35	
Thermal test (100% load)	97,0	400,2 D	50	52,4	32,1	30,0	2957	0,88	93,6
Partial load points:									
~75% load	73,4	400,7 D	50	40,0	23,9	22,5	2970	0,86	94,1
~50% load	49,0	399,8 D	50	28,7	16,0	15,0	2980	0,80	93,9
~25% load	24,5	400,6 D	50	18,9	8,2	7,5	2990	0,63	91,4
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				59	1		1 Resistance		
Frame :				30	2		2 Thermocouples		
Bearing D-end :				28	2		3 Thermometer		
Rotor :				77	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700181, 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>									
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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