



Test Report				Date of issue: 16.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3KP 200MLB 2					
				Product Code: 3GKP201420-ADL					
				Protection type: Ex de 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	37,0	2960	37,0	0,89	S1		
Insul.cl.F	400	D 50	37,0	2960	64,2	0,89	S1		
IP55	415	D 50	37,0	2963	62,1	0,89	S1		
	440	D 60	37,0	3561	57,8	0,89	S1		
Eff class IE3	460	D 60	37,0	3565	56	0,88	S1		
50Hz: IE3-93,7%(100%)-94,2%(75%)-94,1%(50%)									
60Hz: IE3-93,0%(100%)									
Resistance				Insulation resistance at 92 °C		Overload			
Line	Ambient: 25 °C			2000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,08790 Ω					Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub>	0,08780 Ω					Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub>	0,08760 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		400,3 D	50	16,8	0,69		2998	0,06	
Locked rotor test		68,0 D	50	64,8	2,70		0	0,35	
Thermal test (100% load)	119,4	399,8 D	50	64,2	39,3	37,0	2960	0,89	94,1
Partial load points:									
~75% load	89,6	399,9 D	50	49,1	29,3	27,8	2972	0,86	94,6
~50% load	59,8	400,2 D	50	35,2	19,6	18,5	2981	0,80	94,5
~25% load	29,9	400,4 D	50	23,3	10,0	9,3	2990	0,62	92,1
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				61	1		1 Resistance		
Frame :				24	2		2 Thermocouples		
Bearing D-end :				30	2		3 Thermometer		
Rotor :				80	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700182, on date 2015-03-16 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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