



Test Report				Date of issue: 18.3.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3KP 250SMA 2							
				Product Code: 3GKP251210-ADL							
				Protection type: Ex de IIB T4 Gb							
				Cert. No.: LCIE 10 ATEX 3063X							
				IECEX LCI 04.0012X							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	55	2968	54,9	0,89	S1
Insul.cl.F				400	D	50	55	2968	94,8	0,89	S1
IP55				415	D	50	55	2970	92,1	0,89	S1
				440	D	60	55	3566	85,9	0,89	S1
Eff class IE3				460	D	60	55	3569	82,7	0,90	S1
				50Hz: IE3-94,3%(100%)-93,7%(75%)-93,6%(50%)							
				60Hz: IE3-93,6%(100%)							
Resistance				Insulation resistance at 99 °C				Overload			
Line				2000 MΩ				Torque 160% 15s			
U ₁ - V ₁				1000 V				Speed 120% 120s			
U ₁ - W ₁								Current 150% 15s			
V ₁ - W ₁											
				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		400,2 D	50	24,1	1,28		2998	0,08			
Locked rotor test		72,1 D	50	94,8	4,30		0	0,36			
Thermal test (100% load)	176,7	400,4 D	50	94,8	58,2	55,0	2968	0,89	94,6		
Partial load points:											
~75% load	132,6	400,3 D	50	72,6	43,6	41,3	2975	0,87	94,6		
~50% load	88,4	400,3 D	50	52,1	29,3	27,5	2983	0,81	94,0		
~25% load	44,5	400,6 D	50	34,7	15,2	13,8	2990	0,63	90,6		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				66	1			1 Resistance			
Frame :				39	2			2 Thermocouples			
Bearing D-end :				48	2			3 Thermometer			
Rotor:				81	3						
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3G1P141700190, on date 2014-09-24 which is identical in design with the above. Starting current (I_S / I_N) : 6,83 Locked rotor torque (T_L / T_N) : 2,37 Pull-up torque (T_U / T_N) : 1,99 Breakdown torque (T_B / T_N) : 2,98 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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