



Test Report				Date of issue: 4.6.2014					
				Serial No.: 3GF11094419					
				Order No.: 599608-4					
				Type: M3KP 180MLB 2 IMB3/IM1001					
				Product Code: 3GKP181420-ADH					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3088X / IECEx LCI 09.0009X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	30	2943	30,2	0,90	S1		
Insul.cl.F	400	D 50	30	2943	52	0,90	S1		
IP55	415	D 50	30	2948	50	0,90	S1		
Eff class IE2		50Hz : IE2 - 92.5(100%) - 93.0(75%) - 92,6(50%)							
Resistance			Ambient: 19,5 °C		Insulation resistance at 28,0 °C		Overload		
Line					18000 MΩ 1000 V		Torque 160 % 15s		
U <sub>1</sub> - V <sub>1</sub>			0,14380 Ω						
U <sub>1</sub> - W <sub>1</sub>			0,14350 Ω						
V <sub>1</sub> - W <sub>1</sub>			0,14340 Ω						
				High-voltage test winding 2900 V		1 s			
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		399,9	D 50	13,4	0,89			0,10	
Locked rotor test		67,4	D 50	52,0	2,49			0,41	
Thermal test (100% load)		400,1	D 50	52,2	32,5	30,0	2948	0,90	92,2
Partial load points:									
~75% load		399,8	D 50	39,8	24,2	22,5	2969	0,88	92,9
~50% load		400,1	D 50	28,4	16,3	15,0	2983	0,83	92,3
~25% load		400,1	D 50	18,6	8,48	7,50	2994	0,66	88,4
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method	
Stator winding :				57,4		1		1 Resistance	
Frame :				20,5		2		2 Thermometer	
Bearing D-end :				28,3		2		3 Thermocouples	
Rotor :				74,2		3			
Ambient Temperature :		25,0				2			
Vibration:		↓ →				Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 7,28			
D-end		0,70		0,80		Locked rotor torque (T <sub>I</sub> / T <sub>N</sub> ) : 2,85			
N-end		0,50		0,35		Breakdown torque (T <sub>b</sub> / T <sub>N</sub> ) : 3,58			
Axial		0,30				Pull-up torque (T <sub>u</sub> / T <sub>N</sub> ) : 2,36			
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			17.1.2012			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211			
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