



Test Report				Serial No.: 3GF11059981					
				Type: M3KP 160MLA 6 IMB3/IM1001					
				Product Code: 3GKP163410-ADH					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3087X					
				IECEX LCI 09.0008X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	7.5	968	9.2	0.78	S1		
Insul.cl.F	400	D 50	7.5	968	15.8	0.78	S1		
IP55	415	D 50	7.5	970	15.4	0.77	S1		
Eff class IE2 87.2(100%) - 88.4(75%) - 88.2(50%)									
Resistance				Insulation resistance at 35 °C		Overload			
Line Ambient: 20 °C				10000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub> 0.85050 Ω									
U <sub>1</sub> - W <sub>1</sub> 0.85080 Ω									
V <sub>1</sub> - W <sub>1</sub> 0.85160 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		400.5 D	50	7.1	0.26		998	0.05	
Locked rotor test		103.0 D	50	14.8	0.88		0	0.33	
Thermal test (100% load)	73.6	400.4 D	50	15.8	8.6	7.5	967	0.78	87.7
Partial load points:									
~75% load	55.7	400.4 D	50	12.6	6.3	5.6	978	0.72	89.2
~50% load	35.8	400.1 D	50	9.8	4.2	3.8	987	0.62	89.6
~25% load	18.4	400.3 D	50	7.8	2.2	1.9	995	0.40	86.1
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				41	1			1 Resistance	
Frame :				24	2			2 Thermometer	
Bearing D-end :				24	2			3 Thermocouples	
Ambient Temperature :				25	2				
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		2.2.2012					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211		Telefax +358 10 22 47372	

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