



Test Report				Date of issue: 4.6.2014							
				Serial No.: 0927-010205101							
				Type: M3KP 160MLB 8 B5							
				Product Code: 3GKP164420-H							
				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				400	D	50	5,5	723	12,8	0,71	S1
Insul.cl.F				415	D	50	5,5	725	12,7	0,69	S1
IP55				690	Y	50	5,5	723	7,5	0,71	S1
400 V 50Hz : 86.8(100%) - 87.6(75%) - 86.8(50%)											
Resistance				Ambient: 26,0 °C				Insulation resistance at 52,5 °C		Overload	
Line				15000 MΩ		1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>				1,34450 Ω							
U <sub>1</sub> - W <sub>1</sub>				1,34470 Ω							
V <sub>1</sub> - W <sub>1</sub>				1,34430 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]	n[r/min]	cos φ	η [%]		
No load test		400,0	D	50	7,91	0,37	750	0,07			
Locked rotor test		114,9	D	50	13,2	0,98	0	0,37			
Thermal test (100% load)	72,7	400,2	D	50	13,5	6,47	5,50	720	0,69	85,0	
Partial load points:											
~75% load	54,5	400,0	D	50	11,4	4,83	4,12	728	0,61	85,4	
~50% load	36,0	400,0	D	50	9,62	3,27	2,75	736	0,49	84,1	
~25% load	18,0	400,0	D	50	8,37	1,79	1,37	743	0,31	76,9	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				46,4	1	1		1 Resistance			
Frame :				18,6	2	2		2 Thermometer			
Bearing D-end :				24,2	2	2		3 Thermocouples			
Rotor:				58,8	3	3					
Ambient Temperature :				25,0	2	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	11.8.2009						
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone	+358 10 2211		
								Telefax	+358 10 22 47372		

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