



Test Report				Date of issue: 4.6.2014							
				Serial No.: 0908-010290582							
				Type: M3KP 160MLC 2 B3							
				Product Code: 3GKP161430-G							
				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	18,5	2934	32,3	0,90	S1	
Insul.cl.F				415	D 50	18,5	2940	31,7	0,88	S1	
IP55				690	Y 50	18,5	2934	18,7	0,90	S1	
Eff class IE2				50Hz : IE2 - 91.8(100%) - 92.2(75%) - 91.8(50%)							
Resistance				Ambient: 20,0 °C				Insulation resistance at 54,0 °C		Overload	
Line								10000 MΩ 1000 V		Torque 160% 15s	
U ₁ - V ₁				0,25830 Ω							
U ₁ - W ₁				0,25830 Ω							
V ₁ - W ₁				0,25870 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		400,2 D	50	8,98	0,50		3000	0,08			
Locked rotor test		75,3 D	50	33,0	1,85		0	0,43			
Thermal test (100% load)	60,2	400,0 D	50	32,5	20,2	18,5	2923	0,90	91,6		
Partial load points:											
~75% load	45,0	400,2 D	50	24,8	15,0	13,9	2949	0,87	92,4		
~50% load	30,3	400,1 D	50	17,8	10,0	9,25	2969	0,81	92,3		
~25% load	15,5	400,1 D	50	12,0	5,19	4,62	2987	0,63	89,0		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :					69,6	1		1 Resistance			
Frame :					32,1	2		2 Thermometer			
Bearing D-end :					42,8	2		3 Thermocouples			
Ambient Temperature :				25,0		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		27.3.2009						
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone +358 10 2211		Telefax +358 10 22 47372	

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