



Test Report				Date of issue: 4.6.2014							
				Serial No.: 3GF10053026							
				Type: M3KP 160MLF 4 IMV1/IM3011							
				Product Code: 3GKP162460-BDH							
				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	1469	35	0,83	S1	
Insul.cl.F				415	D 50	18,5	1471	34,6	0,81	S1	
IP56				690	Y 50	18,5	1469	20,3	0,83	S1	
Eff class IE2				400 V 50Hz : IE2 - 91.7(100%) - 92.1(75%) - 91.4(50%)							
Resistance				Ambient: 21,0 °C				Insulation resistance at 39,0 °C		Overload	
Line				6000 MΩ				1000 V		Torque 160% 15s	
U ₁ - V ₁				0,26920 Ω							
U ₁ - W ₁				0,26930 Ω							
V ₁ - W ₁				0,26920 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		400,1 D	50	14,5	0,61		1500	0,06			
Locked rotor test		78,0 D	50	35,0	1,71		0	0,36			
Thermal test (100% load)	120,3	400,1 D	50	35,0	20,2	18,5	1466	0,83	91,4		
Partial load points:											
~75% load	90,5	400,6 D	50	27,8	15,1	13,9	1475	0,79	91,9		
~50% load	60,1	400,1 D	50	21,4	10,1	9,25	1484	0,69	91,2		
~25% load	30,1	400,2 D	50	16,4	5,32	4,62	1492	0,47	87,0		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				69,9	1			1 Resistance			
Frame :				35,9	2			2 Thermometer			
Bearing D-end :				37,5	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		15.12.2010						
Tested by ABB Oy, Motors and Generators, Vaasa, Finland							Telephone		+358 10 2211		
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