



Test Report				Date of issue: 4.6.2014					
				Serial No.: 3GF11065346					
				Type: M3KP 160MLC 4 IMB5/IM3001					
				Product Code: 3GKP162430-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	11	1470	21,2	0,82	S1		
Insul.cl.F	415	D 50	11	1473	20,9	0,80	S1		
IP55	690	Y 50	11	1470	12,3	0,82	S1		
Eff class IE2 400 V 50Hz : IE2 - 91.2(100%) - 91.5(75%) - 90,6(50%)									
Resistance				Insulation resistance at 44,5 °C		Overload			
Line	Ambient: 20,0 °C			26000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,49860 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,49880 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,49870 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	9,51	0,50		1498	0,08	
Locked rotor test		77,6 D	50	21,2	1,07		0	0,38	
Thermal test (100% load)	71,5	400,1 D	50	21,5	12,1	11,0	1471	0,81	90,6
Partial load points:									
~75% load	53,6	400,1 D	50	17,3	9,10	8,25	1479	0,76	90,7
~50% load	35,4	400,1 D	50	13,6	6,15	5,50	1486	0,65	89,4
~25% load	17,5	400,0 D	50	10,8	3,29	2,75	1492	0,44	83,5
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method		
Stator winding :				45,8	1		1 Resistance		
Frame :				21,0	2		2 Thermometer		
Bearing D-end :				18,7	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		29.3.2011				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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