



Test Report				Date of issue: 4.6.2014							
				Serial No.: 0925-010304200							
				Type: M3KP 225SMB 4 B3							
				Product Code: 3GKP222220-G							
				Protection type: Ex de IIB T4 Gb							
				Cert. No.: LCIE 10 ATEX 3057X / IECEx LCI 04.0005X							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				400	D	50	1480	69	0,84	S1	
Insul.cl.F				415	D	50	1482	67	0,83	S1	
IP55				690	Y	50	1480	40	0,84	S1	
Eff class IE2				400 V 50Hz : IE2 - 93.6(100%) - 93,9(75%) - 93.4(50%)							
Resistance Line				Ambient: 21,0 °C				Insulation resistance at 44,0 °C		Overload	
U <sub>1</sub> - V <sub>1</sub>				0,09732 Ω				10000 MΩ		1000 V	
U <sub>1</sub> - W <sub>1</sub>				0,09729 Ω						Torque 160 % 15s	
V <sub>1</sub> - W <sub>1</sub>				0,09725 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	23,8	0,95		1500	0,06			
Locked rotor test		79,2 D	50	69,1	3,59		0	0,38			
Thermal test (100% load)	238,8	400,1 D	50	67,8	39,7	37,0	1479	0,84	93,3		
Partial load points:											
~75% load	178,9	400,1 D	50	52,8	29,7	27,8	1484	0,81	93,6		
~50% load	119,4	400,2 D	50	39,5	19,9	18,5	1489	0,73	93,1		
~25% load	59,6	400,2 D	50	28,8	10,3	9,25	1495	0,52	89,7		
Temperature rise at rated load.				[°C]		[K]		Method		Measurement method	
Stator winding :						59,7		1		1 Resistance	
Frame :						35,7		2		2 Thermometer	
Bearing D-end :						40,5		2		3 Thermocouples	
Rotor:						94,2		3			
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				11.3.2010			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland								Telephone		+358 10 2211	
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