



Test Report				Date of issue: 30.11.2015					
				Type: M3KP 225SMA 6					
				Product Code: 3GKP223210-ADL					
				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		690	Y 50	30	988	34,9	0,77	S1	
Insul.cl.F		400	D 50	30	988	60,4	0,77	S1	
IP55		415	D 50	30	989	61,8	0,73	S1	
		440	D 60	30	1189	53,5	0,79	S1	
		460	D 60	30	1190	52,6	0,77	S1	
Eff class IE3		50Hz: IE3-92,9%(100%)-93,0%(75%)-92,2%(50%) 60Hz: IE3-93,4%(100%)							
Resistance			Ambient: 22 °C			Insulation resistance at 45 °C		Overload	
Line						1600 MΩ 1000 V		Torque 160% 15s	
U ₁ - V ₁			0,12629 Ω						
U ₁ - W ₁			0,12633 Ω						
V ₁ - W ₁			0,12628 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	29,1	0,92		998	0,05	
Locked rotor test		82,6 D	50	60,8	2,89		0	0,33	
Thermal test (100% load)	290,0	400,0 D	50	60,3	32,3	30,0	988	0,77	93,0
Partial load points:									
-75% load	217,4	400,0 D	50	49,2	24,2	22,5	991	0,71	93,1
-50% load	144,8	400,0 D	50	39,6	16,3	15,0	994	0,59	92,3
-25% load	72,4	400,0 D	50	32,3	8,52	7,50	997	0,38	88,1
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method		
Stator winding :			63	63	1		1 Resistance		
Frame :			41	41	2		2 Thermocouples		
Bearing D-end :			47	47	2		3 Thermometer		
Rotor :			79	79	3				
Ambient Temperature :			25	25	2				
These tests have been carried out on motor no. 3G1P141700189, on date 2014-11-25 which is identical in design with the above.						Starting current (I _S / I _N) : 7,21			
						Locked rotor torque (T _L / T _N) : 2,90			
						Pull-up torque (T _U / T _N) : 2,54			
						Breakdown torque (T _B / T _N) : 3,30			
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									
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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