



Test Report				Date of issue: 18.3.2015					
				Serial No.:					
				Type: M3KP 250SMA 4					
				Product Code: 3GKP252210-ADL					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 10 ATEX 3063X/ IECEX LCI 04.0012X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3~Motor	690	Y 50	55	1482	58	0,84	S1		
Insul.cl.F	400	D 50	55	1482	100	0,84	S1		
IP55	415	D 50	55	1484	98,6	0,82	S1		
	440	D 60	55	1782	90,2	0,84	S1		
Eff class IE3	460	D 60	55	1785	87,5	0,83	S1		
50Hz: IE3-94,6%(100%)-94,7%(75%)-94,0%(50%)									
60Hz: IE3-95,4%(100%)									
Resistance			Ambient: 26 °C			Insulation resistance at 101 °C			Overload
Line			2000 MΩ			1000 V			Torque 160% 15s
U ₁ - V ₁			0,06090 Ω						Speed 120% 120s
U ₁ - W ₁			0,06070 Ω						Current 150% 15s
V ₁ - W ₁			0,06080 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		400,5 D	50	38,7	1,24		1498	0,05	
Locked rotor test		74,1 D	50	100,3	5,00		0	0,39	
Thermal test (100% load)	353,0	400,5 D	50	100,5	58,1	55,0	1482	0,84	94,7
Partial load points:									
~75% load	265,0	400,3 D	50	79,3	43,5	41,3	1487	0,79	94,8
~50% load	176,2	400,8 D	50	60,6	29,2	27,5	1491	0,70	94,2
~25% load	88,1	400,2 D	50	45,8	15,1	13,8	1496	0,48	91,0
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method	
Stator winding :				62		1		1 Resistance	
Frame :				39		2		2 Thermocouples	
Bearing D-end :				37		2		3 Thermometer	
Rotor:				89		3			
Ambient Temperature :		25				2			
These tests have been carried out on motor no. 3G1P141700191, on date 2014-10-03 which is identical in design with the above.									
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					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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