



Test Report				Date of issue: 4.6.2014					
				Serial No.: 0909-010591682					
				Type: M3KP 280SMB 4 B3					
				Product Code: 3GKP282220-ADG					
				Protection type: Ex de IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3089X / IECEX LCI 04.0006X					
Rating:									
	V	Hz		kW	r/min	A	cos φ	Duty	
3~Motor	690	Y 50		90	1483	92	0,86	S1	
Insul.cl.F	400	D 50		90	1483	159	0,86	S1	
IP55	415	D 50		90	1485	155	0,85	S1	
Resistance				Insulation resistance at 58,5 °C			Overload		
Line	Ambient: 21,0 °C			13000 MΩ 1000 V		Torque 160 % 15s			
U <sub>1</sub> - V <sub>1</sub>	0,03457 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,03458 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,03454 Ω								
				High-voltage test winding 2400 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	51,2	1,82		1500	0,05	
Locked rotor test		74,0 D	50	159,1	7,08		0	0,35	
Thermal test (100% load)	579,6	400,0 D	50	161,1	94,8	90,0	1484	0,85	95,0
Partial load points:									
~75% load	435,3	400,0 D	50	125,0	71,1	67,5	1485	0,82	94,9
~50% load	291,3	400,1 D	50	91,8	47,5	45,0	1493	0,75	94,7
~25% load	143,5	400,2 D	50	65,0	24,5	22,5	1496	0,54	91,8
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				61,4	1	1 Resistance			
Frame :				26,3	2	2 Thermometer			
Bearing D-end :				47,0	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		24.4.2009				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211		Telefax +358 10 22 47372	

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