



Test Report				Date of issue: 4.6.2014					
				Serial No.: 0910-010592792					
				Type: M3KP 280SMA 2 B3					
				Product Code: 3GKP281210-G					
				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		75	2978	76	0,88	S1	
Insul.cl.F	400	D 50		75	2978	131	0,88	S1	
IP55	415	D 50		75	2980	127	0,87	S1	
Resistance				Insulation resistance at 44,0 °C			Overload		
Line	Ambient: 22,0 °C			12000 MΩ	1000 V	Torque 160 % 15s			
U <sub>1</sub> - V <sub>1</sub>	0,03113 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,03113 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,03110 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		400,1 D	50	37,9	2,77		3000	0,11	
Locked rotor test		64,1 D	50	131,1	4,09		0	0,28	
Thermal test (100% load)	240,5	400,1 D	50	131,8	79,7	75,0	2977	0,87	94,1
Partial load points:									
~75% load	180,9	400,1 D	50	102,1	60,1	56,3	2983	0,85	93,6
~50% load	120,3	400,0 D	50	74,8	40,8	37,5	2987	0,79	92,0
~25% load	60,8	400,0 D	50	51,4	21,7	18,8	2991	0,61	86,5
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				55,7	1	1 Resistance			
Frame :				25,6	2	2 Thermometer			
Bearing D-end :				37,5	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		12.5.2009				
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211		Telefax +358 10 22 47372	

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