



Test Report				Date of issue: 4.6.2014							
				Serial No.: 3GF10023987							
				Type: M3KP 280SMA 6 IMV6/IM1031							
				Product Code: 3GKP283210-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				400	D 50	45	990	82,7	0,84	S1	
Insul.cl.F				415	D 50	45	991	81,6	0,82	S1	
IP56				690	Y 50	45	990	47,9	0,84	S1	
Ambient temp. -20°C...+55°C											
Eff class IE2				400 V 50Hz : IE2 - 93.4(100%) - 93.6(75%) - 93.1(50%)							
Resistance Line				Ambient: 22,5 °C				Insulation resistance at 49,5 °C		Overload	
U ₁ - V ₁				0,08113 Ω				1700 MΩ		1000 V	
U ₁ - W ₁				0,08108 Ω						Torque 160 % 15s	
V ₁ - W ₁				0,08112 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	26,9	1,07		1000	0,06			
Locked rotor test		85,9 D	50	81,0	3,66		0	0,30			
Thermal test (100% load)	433,7	400,1 D	50	83,8	48,2	45,0	990	0,83	93,3		
Partial load points:											
~75% load	326,7	400,1 D	50	64,6	36,0	33,8	992	0,80	93,7		
~50% load	214,8	400,1 D	50	47,5	24,1	22,5	995	0,73	93,4		
~25% load	107,1	400,1 D	50	33,8	12,5	11,3	998	0,53	90,3		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :					53,6	1		1 Resistance			
Frame :					31,8	2		2 Thermometer			
Bearing D-end :					35,5	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				6.6.2010			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland							Telephone		+358 10 2211		
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