



Test Report				Date of issue: 15.10.2012					
				Serial No.: 3GF12125119					
				Type: M3KP 280SMC 12 IMB5/IM3001					
				Product Code: 3GKP286230-BDG					
				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	37	493	101	0.58	S1		
Insul.cl.F	415	D 50	37	494	103	0.55	S1		
IP55	690	Y 50	37	493	58.6	0.58	S1		
Ambient temp. +40°C						Efficiency: 90.6(100%) - 89.8(75%) - 87.2(50%)			
Resistance			Ambient: 22.0 °C		Insulation resistance at 62.5 °C		Overload		
Line					1190 MΩ 1000 V		Torque 160% 15s		
U ₁ - V ₁			0.06752 Ω						
U ₁ - W ₁			0.06754 Ω						
V ₁ - W ₁			0.06755 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	69.2	1.95		500	0.04	
Locked rotor test		113.4 D	50	101.0	4.14		0	0.21	
Thermal test (100% load)	716.7	400.2 D	50	99.9	40.5	37.0	493	0.59	91.4
Partial load points:									
~75% load	537.6	400.1 D	50	87.8	30.6	27.8	495	0.50	90.8
~50% load	358.2	400.0 D	50	78.2	20.9	18.5	496	0.39	88.7
~25% load	178.9	400.0 D	50	71.3	11.3	9.3	498	0.23	81.8
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				65.2	1		1 Resistance		
Frame :				46.9	2		2 Thermometer		
Bearing D-end :				35.8	2		3 Thermocouples		
Rotor:				70.3	3				
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		11.10.2012					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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