



Type Test Report				Date of issue: 2011.11.07							
Customer:				Serial No.: 3GV1010527634001							
				Type: M3AA 280SMA 8 Product Code: 3GAA284031-ADG							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				400	D 50	37,0	740	78,1	0,74	S1	
Insul.cl.F				690	Y 50	37,0	740	45,3	0,74	S1	
IP55				415	D 50	37,0	741	77,3	0,72	S1	
				460	D 60	37,0	892	68,3	0,73	S1	
50Hz : N/A											
60Hz : N/A											
Resistance				Insulation resistance at 32 °C				Overload			
Line Ambient: 24,0 °C				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁ 0,1193 Ω								Torque 160 % 15s			
U ₁ - W ₁ 0,1193 Ω								Speed 120 % 120s			
V ₁ - W ₁ 0,1189 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		401,5 D	50	36,7	1,1		750	0,04			
Locked rotor test		107 D	50	87,0	5,44		0	0,34			
Thermal test (100% load)	476,9	400 D	50	77,7	39,85	37,00	741	0,74	92,86		
Partial load points:											
~75% load	359,0	400 D	50	63,1	30,02	27,96	744	0,69	93,14		
~50% load	238,3	400 D	50	50,1	20,13	18,62	746	0,58	92,49		
~25% load	121,2	400 D	50	40,8	10,70	9,50	748	0,38	88,79		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				64,2	1			1 Resistance			
Frame :				29,3	2			2 Thermometer			
Bearing D-end :				40,0	2			3 Thermocouples			
Ambient Temperature :				32	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		15.7.2010						
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden							Telephone		+46 (0)21 32 90 00		
							Telefax		+46 (0)21 32 90 22		

Computer print-out valid without signature.