



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 280SMA 8 Product Code: 3GAA284210-ADG					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	37,0	740	46,1	0,74	S1	
Insul.cl.F		400	D 50	37,0	740	78,1	0,74	S1	
IP55		415	D 50	37,0	741	77,3	0,71	S1	
		440	D 60	37,0	890	70,6	0,74	S1	
Eff class IE3		460	D 60	37,0	892	68,3	0,73	S1	
50Hz : IE3 - 92,2(100%) - 93,0(75%) - 92,6(50%)				60Hz : IE3 - 92,8(100%)					
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				
<p>These tests have been carried out on motor no. 3GV1010527634001, on date 2010-07-15 which is identical in electrical design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>									
On behalf of customer									
On behalf of manufacturer					Date of test				
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00			
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