



Type Test Report				Date of issue: 1.9.2015						
Customer:				Serial No.:						
				Type: M3AA 280SMA 2 Product Code: 3GAA281210-ADG						
Customer ref.:										
Rating:										
				V	Hz	kW	r/min	A	cos φ	Duty
3-Motor				690	Y	50	75,0	2968	74,2	0,89 S1
Insul.cl.F				400	D	50	75,0	2968	128,0	0,89 S1
IP55				415	D	50	75,0	2971	125,0	0,88 S1
				440	D	60	75,0	3569	115,0	0,90 S1
				460	D	60	75,0	3568	112,0	0,89 S1
Eff class IE2				50Hz : IE2 - 94,4(100%) - 94,7(75%) - 94,3(50%) 60Hz : IE3 - 94,3(100%)						
Resistance				Insulation resistance at 23,5 °C				Overload		
Line				R > 2000 Mohm 1000 V				Current 150 % 120s		
U ₁ - V ₁				Ambient: 22,4 °C				Torque 160 % 15s		
U ₁ - W ₁				0,03709 Ω				Speed 120 % 120s		
V ₁ - W ₁				0,03692 Ω						
				0,03698 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		400,5 D	50	29,1	1,12		3000	0,06		
Locked rotor test		70,7 D	50	126,8	5,65		0	0,36		
Thermal test (100% load)	241,2	400 D	50	127,3	78,80	75,00	2969	0,89	95,18	
Partial load points:										
~75% load	182,0	400 D	50	97,7	59,37	56,75	2978	0,88	95,58	
~50% load	122,7	400 D	50	69,7	40,19	38,37	2987	0,83	95,49	
~25% load	61,6	400 D	50	44,4	20,65	19,33	2995	0,67	93,60	
Temperature rise at rated load.				°C	K	Method		Measurement method		
Stator winding :				75,2	1			1 Resistance		
Frame :				28,4	2			2 Thermometer		
Bearing D-end :				44,3	2			3 Thermocouples		
Ambient Temperature :				24	2					
These tests have been carried out on motor no. 3GV1110779725005, on date 2011-11-30 which is identical in electrical design with the above. 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 Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22										

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