



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 280SMB 6 Product Code: 3GAA283220-ADK							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y 50	55,0	989	61,1	0,80	S1	
Insul.cl.F				400	D 50	55,0	989	105,0	0,80	S1	
IP55				415	D 50	55,0	990	105,0	0,77	S1	
Eff class IE3				50Hz : IE3 - 94,1(100%) - 94,7(75%) - 94,4(50%)							
Resistance				Insulation resistance at				Overload			
Line				Ambient: 23,0 °C				R > 2000 Mohm 1000 V			
U ₁ - V ₁				0,0726 Ω				Volt. 130 % 60s			
U ₁ - W ₁				0,0726 Ω				Curr. 160 % 120s			
V ₁ - W ₁				0,0726 Ω				Speed 120 % 120s			
				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		401,6 D	50	44,0	1,26		1000	0,04			
Locked rotor test		86 D	50	107,3	4,90			0,31			
Thermal test (100% load)	531,2	400 D	50	105,4	58,54	55,00	989	0,80	93,95		
Partial load points:											
~75% load	397,2	400 D	50	83,4	43,74	41,25	992	0,76	94,31		
~50% load	264,0	400 D	50	64,4	29,28	27,50	995	0,66	93,92		
~25% load	131,6	400 D	50	49,9	15,12	13,75	998	0,44	90,94		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				62,7		1		1 Resistance			
Frame :				60		2		2 Thermometer			
Bearing D-end :				61		2		3 Thermocouples			
Ambient Temperature :				22		2					
<p>These tests have been carried out on motor no. 3G1S 14461451890 001, on date 2014-10-27 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 Telefax +46 (0)21 32 90 22					

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