



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 280SMB 6 Product Code: 3GAA283220-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	55,0	988	58,6	0,84	S1		
Insul.cl.F	400	D 50	55,0	988	101	0,84	S1		
IP55	415	D 50	55,0	989	98,7	0,83	S1		
	440	D 60	55,0	1189	91	0,85	S1		
	460	D 60	55,0	1190	88,4	0,83	S1		
Eff class IE2	50Hz : IE2 - 93,2(100%) - 94,1(75%) - 94,0(50%) 60Hz : IE2 - 93,8(100%)								
Resistance				Insulation resistance at 29 °C		Overload			
Line	Ambient: 26,4 °C			R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U <sub>1</sub> - V <sub>1</sub>	0,07913 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,07912 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,07924 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		400,8 D	50	36,9	1,18		1000	0,05	
Locked rotor test		88,3 D	50	112,0	5,96		0	0,35	
Thermal test ( 100% load )	531,1	400 D	50	102,0	58,76	55,00	989	0,83	93,60
Partial load points:									
~75% load	400,9	400 D	50	80,1	44,27	41,66	992	0,80	94,11
~50% load	266,7	400 D	50	59,8	29,61	27,80	995	0,71	93,91
~25% load	133,1	400 D	50	43,9	15,25	13,91	998	0,50	91,23
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				65,5	1			1 Resistance	
Frame :				30,0	2			2 Thermometer	
Bearing D-end :				45,3	2			3 Thermocouples	
Ambient Temperature :				29	2				
<p>These tests have been carried out on motor no. 3GV1010527632001, on date 2011-07-06 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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