



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 280SMB 4 Product Code: 3GAA282220-ADG							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	90,0	1478	94,5	0,84	S1
Insul.cl.F				400	D	50	90,0	1478	163,0	0,84	S1
IP55				415	D	50	90,0	1480	163,0	0,81	S1
				440	D	60	90,0	1780	145,0	0,86	S1
				460	D	60	90,0	1782	141,0	0,84	S1
Eff class IE2				50Hz : IE2 - 94,6(100%) - 95,4(75%) - 95,2(50%) 60Hz : IE2 - 94,6(100%)							
Resistance				Insulation resistance at 27 °C				Overload			
Line				Ambient: 22,7 °C				R > 2000 Mohm 1000 V			
U ₁ - V ₁				0,03277 Ω				Current 150 % 120s			
U ₁ - W ₁				0,03273 Ω				Torque 160 % 15s			
V ₁ - W ₁				0,03277 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		401,5 D	50	63,8	1,75		1500	0,04			
Locked rotor test		71,3 D	50	158,1	7,45		0	0,38			
Thermal test (100% load)	581,5	400 D	50	163,4	95,15	90,00	1478	0,84	94,59		
Partial load points:											
~75% load	435,1	400 D	50	128,9	71,24	67,61	1484	0,80	94,91		
~50% load	290,4	400 D	50	98,9	47,90	45,31	1490	0,70	94,59		
~25% load	145,5	400 D	50	74,7	24,76	22,78	1495	0,48	92,01		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				79,1	1			1 Resistance			
Frame :				33,6	2			2 Thermometer			
Bearing D-end :				50	2			3 Thermocouples			
Ambient Temperature :				23	2						
These tests have been carried out on motor no. 3GV1010612958001, on date 2010-10-25 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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