



Type Test Report				Date of issue: 2011.11.07						
Customer:				Serial No.: 3GV1010527632001						
				Customer ref.:				Type: M3AA 280SMB 6		
Rating:				V	Hz	kW	r/min	A	cos φ	Duty
3~Motor				400	D 50	55,0	988	101	0,84	S1
Insul.cl.F				690	Y 50	55,0	988	58,7	0,84	S1
IP55				415	D 50	55,0	989	98,7	0,83	S1
Eff class IE2				460	D 60	55,0	1190	88,4	0,83	S1
50Hz : IE2 - 93,2(100%) - 94,1(75%) - 93,8(50%)										
60Hz : IE2 - 94,0(100%) - 94,3(75%) - 93,7(50%)										
Resistance				Insulation resistance at 29 °C			Overload			
Line Ambient: 26,4 °C				R > 2000 Mohm 1000 V			Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub> 0,07913 Ω							Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub> 0,07912 Ω							Speed 120 % 120s			
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					
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		6.7.2011					
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden								Telephone		+46 (0)21 32 90 00
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