



Type Test Report				Date of issue: 2011.11.07						
Customer:				Serial No.: 3GV1010527632001						
				Customer ref.:				Type: M3AA 280SMA 6		
Rating:				V	Hz	kW	r/min	A	cos φ	Duty
3~Motor				400	D 50	45,0	988	82,9	0,84	S1
Insul.cl.F				690	Y 50	45,0	988	48,0	0,84	S1
IP55				415	D 50	45,0	990	80,9	0,83	S1
Eff class IE2				460	D 60	45,0	1190	72,5	0,83	S1
50Hz :				IE2 - 93,2(100%) - 94,0(75%) - 93,7(50%)						
60Hz :				IE2 - 93,8(100%) - 94,2(75%) - 93,6(50%)						
Resistance				Insulation resistance at 26 °C				Overload		
Line				Ambient: 24,0 °C				R > 2000 Mohm 1000 V		
U ₁ - V ₁				0,09871 Ω				Current 150 % 120s		
U ₁ - W ₁				0,09866 Ω				Torque 160 % 15s		
V ₁ - W ₁				0,09877 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	29,9	1,03		1000	0,05		
Locked rotor test		88,2 D	50	92,0	4,98		0	0,35		
Thermal test (100% load)	434,4	400 D	50	84,4	48,28	45,00	989	0,83	93,21	
Partial load points:										
~75% load	325,8	400 D	50	65,9	36,15	33,87	993	0,79	93,69	
~50% load	216,5	400 D	50	49,3	24,17	22,57	996	0,71	93,39	
~25% load	108,7	400 D	50	36,5	12,56	11,36	998	0,50	90,40	
Temperature rise at rated load.				°C	K	Method		Measurement method		
Stator winding :				63,5	1			1 Resistance		
Frame :				28,7	2			2 Thermometer		
Bearing D-end :				38,9	2			3 Thermocouples		
Ambient Temperature :				26	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				26.5.2011		
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden								Telephone		+46 (0)21 32 90 00
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