



Type Test Report				Date of issue: 2011.09.28							
Customer:				Serial No.: 3GV1010612958001							
				Type: M3AA 280SMB 4 Product Code: 3GAA282032-ADG							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				400	D 50	90,0	1478	163,0	0,84	S1	
Insul.cl.F				690	Y 50	90,0	1478	94,6	0,84	S1	
IP55				415	D 50	90,0	1480	163,0	0,81	S1	
Eff class IE2				460	D 60	90,0	1782	141,0	0,84	S1	
50Hz : IE2 - 94,7(100%) - 93,5(75%) - 95,0(50%)											
60Hz : IE2 - 95,0(100%) - 95,0(75%) - 94,3(50%)											
Resistance Line				Ambient: 22,7 °C				Insulation resistance at 27 °C		Overload	
U <sub>1</sub> - V <sub>1</sub>				0,03277 Ω				R > 2000 Mohm 1000 V		Current 150 % 120s	
U <sub>1</sub> - W <sub>1</sub>				0,03273 Ω						Torque 160 % 15s	
V <sub>1</sub> - W <sub>1</sub>				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						
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			25.10.2010					
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden								Telephone		+46 (0)21 32 90 00	
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