



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE074513T0329							
				Type: M3AA 132SMC 2 HO Product Code: 3GAA131316-DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	15,0	2905	16,40	0,84	S1	
Insul.cl.F				400	D 50	15,0	2905	28,50	0,84	S1	
IP55				460	D 60	15,0	3515	23,30	0,89	S1	
Eff class IE2				50Hz : IE2 - 90,4(100%) - 90,7(75%) - 89,8(50%) 60Hz : IE2 - 90,7(100%)							
Resistance				Insulation resistance at 21 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
Ambient: 20,0 °C								High-voltage test winding 2400 V 60 s			
U ₁ - V ₁				0,36000 Ω							
U ₁ - W ₁				0,36000 Ω							
V ₁ - W ₁				0,36100 Ω							
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 D	50	9,2	0,51		3000	0,08			
Locked rotor test		59,9 D	50	27,0	1,16		0	0,41			
Thermal test (100% load)	49,4	400 D	50	27,2	16,63	15,00	2897	0,88	90,20		
Partial load points:											
~75% load	36,7	400 D	50	21,2	12,39	11,25	2925	0,84	90,80		
~50% load	24,3	400 D	50	15,7	8,30	7,50	2952	0,76	90,40		
~25% load	12,0	400 D	50	11,2	4,35	3,75	2979	0,56	86,30		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				78,0	3			1 Resistance			
Frame :				27,0	3			2 Thermometer			
Bearing D-end :				40,0	3			3 Thermocouples			
Ambient Temperature :				25	3						
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			20.11.2007					
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain							Telephone		+34 93 728 85 00		
							Telefax		+34 93 728 85 33		

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