



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE074513T0331						
					Type: M3AA 132SME 2 HO					Product Code: 3GAA131008-DE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	22,0	2890	23,90	0,85	S1
Insul.cl.F					400	D 50	22,0	2890	41,40	0,85	S1
IP55					460	D 60	22,0	3495	35,00	0,86	S1
Eff class IE1					50Hz : IE1 - 90,2(100%) - 91,0(75%) - 90,9(50%)						
					60Hz : IE1 - 91,6(100%)						
Resistance					Insulation resistance at 22 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 17,0 °C					Torque 160 % 15s	
U ₁ - W ₁					0,21900 Ω					Speed 120 % 120s	
V ₁ - W ₁					0,22000 Ω						
					0,21900 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 D	50	14,3	0,65		3000	0,07			
Locked rotor test		60 D	50	41,0	1,84		0	0,43			
Thermal test (100% load)	72,7	400 D	50	40,2	24,53	22,00	2888	0,88	89,70		
Partial load points:											
~75% load	54,0	400 D	50	31,3	18,23	16,50	2916	0,84	90,50		
~50% load	35,6	400 D	50	23,3	12,15	11,00	2947	0,75	90,50		
~25% load	17,7	400 D	50	16,5	6,31	5,50	2970	0,55	87,10		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					91,7	3			1 Resistance		
Frame :					30,0	3			2 Thermometer		
Bearing D-end :					37,0	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			27.11.2007					
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain								Telephone		+34 93 728 85 00	
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