



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE081909T0732							
				Type: M3AA 90LB 6 Product Code: 3GAA093313-_DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	0,75	930	1,13	0,71	S1	
Insul.cl.F				400	D 50	0,75	930	1,96	0,71	S1	
IP55				460	D 60	0,75	1140	1,71	0,68	S1	
Eff class IE2				50Hz : IE2 - 77,6(100%) - 76,2(75%) - 75,6(50%) 60Hz : IE2 - 80,7(100%)							
Resistance				Insulation resistance at 21 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 24,0 °C				High-voltage test winding 2400 V 60 s			
U ₁ - W ₁				18,82000 Ω							
V ₁ - W ₁				18,83000 Ω							
				18,81000 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	1,25	0,10		1000	0,12			
Locked rotor test		111 D	50	2,00	0,26		0	0,67			
Thermal test (100% load)	7,7	400 D	50	1,93	0,98	0,75	931	0,73	76,50		
Partial load points:											
~75% load	5,6	400 D	50	1,64	0,73	0,56	950	0,64	76,90		
~50% load	3,7	400 D	50	1,44	0,51	0,38	968	0,51	74,40		
~25% load	1,8	400 D	50	1,31	0,30	0,19	985	0,33	63,10		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				37,1	3			1 Resistance			
Frame :				21,0	3			2 Thermometer			
Bearing D-end :				21,0	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			13.6.2008					
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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