



Type Test Report				Date of issue: 2011.12.19							
Customer:				Serial No.: 3GE081909T0732							
				Type: M3AA 90LB 6 Product Code: 3GAA093443-_HE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor Insul.cl.F IP55 Eff class IE2				415	D 50	0,75	935	1,93	0,71	S1	
				50Hz : IE2 - 76,1(100%) - 76,0(75%) - 72,7(50%)							
Resistance		Ambient: 24,0 °C		Insulation resistance at 21 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁		18,82000 Ω						Torque 160 % 15s			
U ₁ - W ₁		18,83000 Ω						Speed 120 % 120s			
V ₁ - W ₁		18,81000 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		415 D	50	1,31	0,11		1000	0,12			
Locked rotor test		111 D	50	2,0	0,26		0	0,68			
Thermal test (100% load)	7,7	415 D	50	1,93	0,99	0,75	935	0,71	76,10		
Partial load points:											
~75% load	5,6	415 D	50	1,66	0,74	0,56	952	0,62	76,00		
~50% load	3,7	415 D	50	1,44	0,52	0,38	969	0,50	72,70		
~25% load	1,8	415 D	50	1,34	0,31	0,19	985	0,32	60,40		
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method				
Stator winding :				39,0	3		1 Resistance				
Frame :				19	3		2 Thermometer				
Bearing D-end :				20	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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