



Type Test Report					Date of issue: 2011.12.19						
Customer:					Serial No.: 3GE074309T2202						
					Type: M3AA 90LB 2					Product Code: 3GAA091443-GE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	Y 50	2,20	2890	4,20	0,86	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 84,3(100%) - 84,8(75%) - 83,8(50%)						
Resistance					Insulation resistance at 20 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 22,0 °C					Torque 160 % 15s	
U ₁ - W ₁					4,36200 Ω					Speed 120 % 120s	
V ₁ - W ₁					4,35900 Ω						
					4,36100 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 Y	50	2,1	0,15		3000	0,10			
Locked rotor test		71,3 Y	50	4,5	0,29		0	0,52			
Thermal test (100% load)	7,3	415 Y	50	4,2	2,61	2,20	2889	0,86	84,30		
Partial load points:											
~75% load	5,4	415 Y	50	3,3	1,95	1,65	2915	0,81	84,80		
~50% load	3,6	415 Y	50	2,5	1,31	1,10	2944	0,71	83,80		
~25% load	1,8	415 Y	50	1,89	0,71	0,55	2970	0,52	77,80		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					57,8	3			1 Resistance		
Frame :					17	3			2 Thermometer		
Bearing D-end :					34	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			8.11.2007					
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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