



Type Test Report					Date of issue: 2012.02.06						
Customer:					Serial No.: 3GE120310T0006						
					Type: M3AA 100 LB 2					Product Code: 3GAA101442-_HE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	D 50	3,00	2915	5,50	0,87	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 85,7(100%) - 85,7(75%) - 83,8(50%)						
Resistance					Insulation resistance at 25 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 16,2 °C					Torque 160 % 15s	
U ₁ - W ₁					2,97000 Ω					Speed 120 % 120s	
V ₁ - W ₁					2,97200 Ω						
					2,97400 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	2,3	0,22		3000	0,13			
Locked rotor test		58 D	50	5,5	0,33		0	0,59			
Thermal test (100% load)	9,8	415 D	50	5,5	3,50	3,00	2916	0,87	85,70		
Partial load points:											
~75% load	7,3	415 D	50	4,4	2,63	2,25	2939	0,83	85,70		
~50% load	4,8	415 D	50	3,4	1,79	1,50	2960	0,73	83,80		
~25% load	2,4	415 D	50	2,6	0,99	0,75	2980	0,52	75,70		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					43,3	3			1 Resistance		
Frame :					17,2	3			2 Thermometer		
Bearing D-end :					23,1	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			27.1.2012					
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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