



Type Test Report					Date of issue: 2011.12.19						
Customer:					Serial No.: 3GE073809T1104						
					Type: M3AA 90LB 4					Product Code: 3GAA092444-_HE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	D 50	1,10	1440	2,30	0,79	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 83,2(100%) - 83,2(75%) - 81,0(50%)						
Resistance					Insulation resistance at 22 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 23,0 °C					Torque 160 % 15s	
U ₁ - W ₁					9,35000 Ω					Speed 120 % 120s	
V ₁ - W ₁					9,36000 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	1,40	0,11		1500	0,11			
Locked rotor test		73 D	50	2,7	0,22		0	0,64			
Thermal test (100% load)	7,3	415 D	50	2,3	1,32	1,10	1440	0,79	83,20		
Partial load points:											
~75% load	5,4	415 D	50	1,91	0,99	0,83	1458	0,72	83,20		
~50% load	3,6	415 D	50	1,57	0,68	0,55	1470	0,60	81,00		
~25% load	1,8	415 D	50	1,22	0,37	0,28	1484	0,42	73,60		
Temperature rise at rated load.					°C	[K]	Method		Measurement method		
Stator winding :					32,1	3			1 Resistance		
Frame :					16	3			2 Thermometer		
Bearing D-end :					5	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			8.10.2007					
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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