



Type Test Report				Date of issue: 4.11.2015						
Customer:				Serial No.:						
Customer ref.:				Type: M3AA 90 LB 2 Product Code: 3GAA091520-DE						
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		690	Y 50	2,20	2870	2,60	0,86	S1		
Insul.cl.F		400	D 50	2,20	2870	4,40	0,86	S1		
IP55		460	D 60	2,20	3480	3,70	0,85	S1		
Eff class IE2		50Hz : IE2 - 84,6(100%) - 85,7(75%) - 84,9(50%) 60Hz : IE2 - 85,8(100%)								
Resistance				Insulation resistance at 23 °C			Overload			
Line				R > 2000 Mohm 1000 V			Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 22,0 °C			High-voltage test winding 2400 V 60 s			
U ₁ - W ₁				4,36200 Ω						
V ₁ - W ₁				4,35900 Ω						
				4,36100 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	1,86	0,14		3000	0,11		
Locked rotor test		71,3 D	50	4,5	0,29		0	0,53		
Thermal test (100% load)	7,3	400 D	50	4,3	2,63	2,20	2870	0,88	83,80	
Partial load points:										
~75% load	5,4	400 D	50	3,3	1,94	1,65	2905	0,84	85,00	
~50% load	3,6	400 D	50	2,4	1,30	1,10	2935	0,76	84,80	
~25% load	1,8	400 D	50	1,69	0,68	0,55	2964	0,58	80,40	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				60,1	3			1 Resistance		
Frame :				19,0	3			2 Thermometer		
Bearing D-end :				38,0	3			3 Thermocouples		
Ambient Temperature :				25	3					
These tests have been carried out on motor no. 3GE074509T2202, on date 2007-11-08 which is identical in electrical design with the above.										
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						
Tested by Asea Brown Boveri, S.A., Fabrica Motores, 08192 Sant Quirze del Valles, Spain						Telephone +34 93 728 85 00 Telefax +34 93 728 85 33				

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