



Type Test Report				Date of issue: 4.11.2015						
Customer:				Serial No.:						
				Customer ref.:				Type: M3AA 90 LB 4		
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		690	Y 50	1,10	1435	1,41	0,78	S1		
Insul.cl.F		400	D 50	1,10	1435	2,40	0,78	S1		
IP55		460	D 60	1,10	1740	2,10	0,76	S1		
Eff class IE2		50Hz : IE2 - 83,7%(100%) - 83,7%(75%) - 81,7%(50%) 60Hz : IE2 - 84,6%(100%)								
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		400 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	400 D	50	2,3	1,33	1,10	1433	0,81	82,90	
Partial load points:										
~75% load	5,5	400 D	50	1,92	1,00	0,83	1450	0,75	83,40	
~50% load	3,6	400 D	50	1,51	0,67	0,55	1465	0,64	82,10	
~25% load	1,8	400 D	50	1,18	0,37	0,28	1480	0,45	75,90	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method		
Stator winding :				33,9	3			1 Resistance		
Frame :				18	3			2 Thermometer		
Bearing D-end :				6	3			3 Thermocouples		
Ambient Temperature :				25	3					
<p>These tests have been carried out on motor no. 3GE073907T1104, on date 2007-10-08 which is identical in electrical design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>										
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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