



Type Test Report					Date of issue: 4.11.2015					
Customer:					Serial No.:					
					Type: M3AA 90 LB 4					Product Code: 3GAA092520-_SE
Customer ref.:										
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		400	Y 50	1,10	1435	2,40	0,78	S1		
Insul.cl.F		230	D 50	1,10	1435	4,17	0,78	S1		
IP55		460	Y 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			Ambient: 23,0 °C			R > 2000 Mohm 1000 V			Current 150 % 120s	
U ₁ - V ₁			9,35000 Ω						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 Y 50	50	1,40	0,11		1500	0,11		
Locked rotor test		73 Y 50	50	2,7	0,22		0	0,64		
Thermal test (100% load)	7,3	400 Y 50	50	2,3	1,33	1,10	1433	0,81	82,90	
Partial load points:										
~75% load	5,5	400 Y 50	50	1,92	1,00	0,83	1450	0,75	83,40	
~50% load	3,6	400 Y 50	50	1,51	0,67	0,55	1465	0,64	82,10	
~25% load	1,8	400 Y 50	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> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p style="text-align: right;">Telephone +34 93 728 85 00</p> <p>Tested by Asea Brown Boveri, S.A., Fabrica Motores, 08192 Sant Quirze del Valles, Spain Telefax +34 93 728 85 33</p>										

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