



Type Test Report					Date of issue: 2011.12.19						
Customer:					Serial No.: 3GE103509S8623						
					Type: M3AA 90LD 4					Product Code: 3GAA092445-GE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	Y 50	1,50	1445	3,30	0,75	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 83,9(100%) - 83,3(75%) - 80,5(50%)						
Resistance					Insulation resistance at 25 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 17,1 °C					Torque 160 % 15s	
U ₁ - W ₁					5,96300 Ω					Speed 120 % 120s	
V ₁ - W ₁					5,96100 Ω						
					5,96500 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 Y	50	2,2	0,15		1500	0,09			
Locked rotor test		57,9 Y	50	3,3	0,22		0	0,66			
Thermal test (100% load)	9,9	415 Y	50	3,3	1,79	1,50	1446	0,75	83,90		
Partial load points:											
~75% load	7,4	415 Y	50	2,8	1,35	1,13	1460	0,67	83,30		
~50% load	4,9	415 Y	50	2,3	0,93	0,75	1474	0,54	80,50		
~25% load	2,4	415 Y	50	2,1	0,53	0,38	1486	0,34	70,10		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					45,8	3			1 Resistance		
Frame :					19,9	3			2 Thermometer		
Bearing D-end :					19,8	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			1.2.2011					
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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