



Type Test Report					Date of issue: 2012.02.20						
Customer:					Serial No.: 3GE110209P9009						
					Type: M3AA 90LD 6 Product Code: 3GAA093444-_GE						
Customer ref.:											
Rating:											
					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	Y 50	1,10	945	2,70	0,71	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 78,3(100%) - 78,2(75%) - 75,4(50%)						
Resistance					Insulation resistance at 23,5 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 14,6 °C					Torque 160 % 15s	
U ₁ - W ₁					10,65000 Ω					Speed 120 % 120s	
V ₁ - W ₁					10,38000 Ω						
					10,66000 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		1,87	0,14		1000	0,11			
Locked rotor test		116 Y 50		3,0	0,35		0	0,58			
Thermal test (100% load)	11,1	415 Y 50		2,7	1,40	1,10	943	0,71	78,30		
Partial load points:											
~75% load	8,2	415 Y 50		2,3	1,05	0,83	959	0,63	78,20		
~50% load	5,4	415 Y 50		2,0	0,73	0,55	976	0,50	75,40		
~25% load	2,7	415 Y 50		1,86	0,43	0,28	986	0,32	63,70		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					44,0	3			1 Resistance		
Frame :					28	3			2 Thermometer		
Bearing D-end :					25,7	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 3.2.2011											
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain											
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