



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE100109T1504							
				Type: M3AA 090LD 4 Product Code: 3GAA092315-DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	1,5	1435	1,90	0,76	S1	
Insul.cl.F				400	D 50	1,5	1435	3,30	0,76	S1	
IP55				460	D 60	1,5	1750	3,00	0,72	S1	
Eff class IE2				50Hz : IE2 - 84,2(100%) - 84,1(75%) - 81,9(50%) 60Hz : IE2 - 84,9(100%)							
Resistance				Insulation resistance at 24,2 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U <sub>1</sub> - V <sub>1</sub>				Ambient: 16,6 °C							
U <sub>1</sub> - W <sub>1</sub>				5,85500 Ω							
V <sub>1</sub> - W <sub>1</sub>				5,85400 Ω							
				5,85500 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	2,3	0,15		1500	0,10			
Locked rotor test		61,7 D	50	3,3	0,22		0	0,63			
Thermal test ( 100% load )	9,9	400 D	50	3,4	1,79	1,50	1440	0,75	84,00		
Partial load points:											
~75% load	7,4	400 D	50	2,9	1,35	1,13	1455	0,67	83,60		
~50% load	4,9	400 D	50	2,5	0,92	0,75	1471	0,53	81,10		
~25% load	2,4	400 D	50	2,2	0,53	0,38	1485	0,34	71,90		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				26,3	3			1 Resistance			
Frame :				18,3	3			2 Thermometer			
Bearing D-end :				20,9	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			21.1.2010					
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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