



Type Test Report					Date of issue: 2011.12.19						
Customer:					Serial No.: 3GE081811T4002						
					Type: M3AA 112MB 2					Product Code: 3GAA111442-HE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	D 50	4,00	2890	7,00	0,92	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 85,4(100%) - 86,6(75%) - 86,5(50%)						
Resistance					Insulation resistance at 26 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub>					Ambient: 19,0 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					2,41100 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					2,41200 Ω						
					2,41300 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 D	50	2,1	0,19		3000	0,13			
Locked rotor test		67 D	50	7,5	0,51		0	0,59			
Thermal test ( 100% load )	13,2	415 D	50	7,0	4,68	4,00	2890	0,92	85,40		
Partial load points:											
~75% load	9,8	415 D	50	5,3	3,46	3,00	2921	0,90	86,60		
~50% load	6,5	415 D	50	3,8	2,31	2,00	2950	0,84	86,50		
~25% load	3,2	415 D	50	2,5	1,22	1,00	2973	0,66	81,80		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					56,4	3			1 Resistance		
Frame :					23	3			2 Thermometer		
Bearing D-end :					34	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			16.5.2008					
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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