



Type Test Report					Date of issue: 2012.05.10						
Customer:					Serial No.: 3GE121510T0003						
					Type: M3AA 100 LC 6 HO					Product Code: 3GAA103002-_DE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	2,20	940	3,20	0,69	S1
Insul.cl.F					400	D 50	2,20	940	5,70	0,69	S1
IP55					460	D 60	2,20	1150	5,10	0,65	S1
Eff class IE1					50Hz : IE1 - 79,8(100%) - 81,5(75%) - 79,6(50%)						
					60Hz : IE1 - 82,8(100%)						
Resistance					Insulation resistance at 25 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub>					Ambient: 20,5 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					5,13400 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					5,14300 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	4,0	0,27		1000	0,10			
Locked rotor test		120,7 D	50	5,7	0,69		0	0,58			
Thermal test ( 100% load )	22,3	400 D	50	5,7	2,80	2,20	944	0,70	78,70		
Partial load points:											
~75% load	16,4	400 D	50	4,9	2,08	1,65	961	0,61	79,50		
~50% load	10,8	400 D	50	4,2	1,42	1,10	975	0,48	77,40		
~25% load	5,3	400 D	50	3,9	0,82	0,55	988	0,30	67,30		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					78,9	3			1 Resistance		
Frame :					39	3			2 Thermometer		
Bearing D-end :					43,2	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			9.5.2012					
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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