



Type Test Report					Date of issue: 2012.03.19						
Customer:					Serial No.: 3GE113110S8859						
					Type: M3AA 100 LB 2 HO					Product Code: 3GAA101002-DE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	4,00	2880	4,50	0,86	S1
Insul.cl.F					400	D 50	4,00	2880	7,90	0,86	S1
IP55					460	D 60	4,00	3500	6,60	0,87	S1
Eff class IE1					50Hz : IE1 - 84,3(100%) - 86,1(75%) - 85,7(50%)						
60Hz : IE1 - 86,3(100%)											
Resistance					Insulation resistance at 25 °C					Overload	
Line Ambient: 15,8 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub> 2,62100 Ω										Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub> 2,62300 Ω										Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub> 2,62400 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	3,4	0,27		3000	0,11			
Locked rotor test		66,8 D	50	7,9	0,60		0	0,66			
Thermal test ( 100% load )	13,2	400 D	50	7,8	4,78	4,00	2897	0,88	83,60		
Partial load points:											
~75% load	9,8	400 D	50	6,1	3,54	3,00	2926	0,83	84,70		
~50% load	6,5	400 D	50	4,7	2,39	2,00	2952	0,72	83,70		
~25% load	3,2	400 D	50	3,6	1,33	1,00	2974	0,52	75,00		
Temperature rise at rated load.					°C	K	Method	Measurement method			
Stator winding :					74,0	3		1 Resistance			
Frame :					29,8	3		2 Thermometer			
Bearing D-end :					36,4	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			14.3.2012					
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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