



Type Test Report					Date of issue: 2012.05.03						
Customer:					Serial No.: 3GE121509T0001						
					Type: M3AA 090 LB 6 HO					Product Code: 3GAA093003-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	1,30	910	6,20	0,69	S1
Insul.cl.F					400	Y 50	1,30	910	3,60	0,69	S1
IP55					460	Y 60	1,30	1125	3,20	0,64	S1
Eff class IE1					50Hz : IE1 - 74,4(100%) - 76,8(75%) - 74,6(50%)						
					60Hz : IE1 - 79,6(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: 19,5 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					10,78000 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					10,78000 Ω						
					10,79000 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 Y	50	2,7	0,21		1000	0,11			
Locked rotor test		124,9 Y	50	3,5	0,51		0	0,67			
Thermal test ( 100% load )	13,5	400 Y	50	3,6	1,79	1,30	918	0,70	72,70		
Partial load points:											
~75% load	9,9	400 Y	50	3,1	1,32	0,98	943	0,61	73,60		
~50% load	6,4	400 Y	50	2,8	0,92	0,65	964	0,47	70,70		
~25% load	3,2	400 Y	50	2,6	0,56	0,33	983	0,30	58,50		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					72,7	3			1 Resistance		
Frame :					47	3			2 Thermometer		
Bearing D-end :					46,9	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			26.4.2012					
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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