



Type Test Report					Date of issue: 2011.12.19						
Customer:					Serial No.: 3GE082210T2204						
					Type: M3AA 100LC 4					Product Code: 3GAA102443-_HE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	D 50	2,20	1455	4,60	0,77	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 86,1(100%) - 85,4(75%) - 82,7(50%)						
Resistance					Insulation resistance at 23 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 21,0 °C					Torque 160 % 15s	
U ₁ - W ₁					3,82200 Ω					Speed 120 % 120s	
V ₁ - W ₁					3,82100 Ω						
					3,82500 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	2,6	0,17		1500	0,09			
Locked rotor test		68 D	50	4,8	0,30		0	0,53			
Thermal test (100% load)	14,4	415 D	50	4,6	2,56	2,20	1456	0,77	86,10		
Partial load points:											
~75% load	10,7	415 D	50	3,8	1,93	1,65	1468	0,69	85,40		
~50% load	7,1	415 D	50	3,2	1,33	1,10	1479	0,57	82,70		
~25% load	3,5	415 D	50	2,8	0,75	0,55	1489	0,37	73,70		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					36,3	3			1 Resistance		
Frame :					17	3			2 Thermometer		
Bearing D-end :					24	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			17.6.2008					
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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