



Type Test Report				Date of issue: 2012.02.06						
Customer:				Serial No.: 3GE120310T0003						
				Type: M3AA 112 MC 4 Product Code: 3GAA112443-HE						
Customer ref.:										
Rating:				V	Hz	kW	r/min	A	cos φ	Duty
3~Motor Insul.cl.F IP55 Eff class IE2				415	D 50	4,00	1450	8,30	0,76	S1
				50Hz : IE2 - 87,4(100%) - 87,8(75%) - 86,6(50%)						
Resistance Line		Ambient: 15,3 °C		Insulation resistance at 25 °C R > 2000 Mohm 1000 V				Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s		
U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁		2,05200 Ω 2,07000 Ω 2,06800 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	5,3	0,29		1500	0,08		
Locked rotor test		76,1 D	50	8,3	0,58		0	0,53		
Thermal test (100% load)	26,4	415 D	50	8,3	4,58	4,00	1449	0,76	87,40	
Partial load points:										
~75% load	19,6	415 D	50	7,1	3,42	3,00	1463	0,67	87,80	
~50% load	12,9	415 D	50	6,0	2,31	2,00	1476	0,53	86,60	
~25% load	6,4	415 D	50	5,4	1,25	1,00	1488	0,32	79,90	
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method			
Stator winding :				46,1	3		1 Resistance			
Frame :				23,5	3		2 Thermometer			
Bearing D-end :				28,4	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		2.2.2012						
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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