



Type Test Report					Date of issue: 2012.02.06						
Customer:					Serial No.: 3GE120310T0003						
					Type: M3AA 112 MC 4					Product Code: 3GAA112443-GE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	Y 50	4,00	1450	8,30	0,76	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 87,4(100%) - 87,8(75%) - 86,6(50%)						
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: 15,3 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					2,05200 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					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 Y	50	5,3	0,29		1500	0,08			
Locked rotor test		76,1 Y	50	8,3	0,58		0	0,53			
Thermal test ( 100% load )	26,4	415 Y	50	8,3	4,58	4,00	1449	0,76	87,40		
Partial load points:											
~75% load	19,6	415 Y	50	7,1	3,42	3,00	1463	0,67	87,80		
~50% load	12,9	415 Y	50	6,0	2,31	2,00	1476	0,53	86,60		
~25% load	6,4	415 Y	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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