



Type Test Report					Date of issue: 2012.02.06						
Customer:					Serial No.: 3GE120310T0002						
					Type: M3AA 100 LD 4					Product Code: 3GAA102444-_HE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					415	D 50	3,00	1440	6,20	0,78	S1
Insul.cl.F											
IP55											
Eff class IE2					50Hz : IE2 - 85,7(100%) - 86,8(75%) - 86(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: 15,5 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					3,27400 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					3,28000 Ω						
					3,27500 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	3,6	0,17		1500	0,07			
Locked rotor test		86,4 D	50	6,3	0,52		0	0,55			
Thermal test ( 100% load )	19,9	415 D	50	6,2	3,50	3,00	1438	0,78	85,70		
Partial load points:											
~75% load	14,8	415 D	50	5,0	2,59	2,25	1455	0,71	86,80		
~50% load	9,7	415 D	50	4,2	1,74	1,50	1471	0,57	86,00		
~25% load	4,8	415 D	50	3,7	0,94	0,75	1486	0,35	79,90		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					49,2	3			1 Resistance		
Frame :					21,2	3			2 Thermometer		
Bearing D-end :					25,6	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			31.1.2012					
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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