



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE101016T0001							
				Type: M3AA 132SMD 4 HO							
Customer ref.:				Product Code: 3GAA132316-DE							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	15,0	1455	17,80	0,77	S1	
Insul.cl.F				400	D 50	15,0	1455	31,00	0,77	S1	
IP55				460	D 60	15,0	1760	26,20	0,78	S1	
Eff class IE2				50Hz : IE2 - 90,6(100%) - 91,3(75%) - 91,1(50%) 60Hz : IE2 - 92,0(100%)							
Resistance				Insulation resistance at 25,5 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>				Ambient: 24,5 °C				Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>				0,39700 Ω				Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>				0,39600 Ω				High-voltage test winding 2400 V 60 s			
				0,39400 Ω							
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 D	50	14,8	0,57		1500	0,06			
Locked rotor test		82,4 D	50	30,9	1,88		0	0,43			
Thermal test ( 100% load )	98,5	400 D	50	29,8	16,74	15,00	1454	0,81	89,60		
Partial load points:											
~75% load	73,3	400 D	50	23,9	12,47	11,25	1466	0,75	90,20		
~50% load	48,5	400 D	50	18,8	8,36	7,50	1477	0,64	89,70		
~25% load	24,1	400 D	50	15,0	4,39	3,75	1488	0,42	85,40		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				87,8	3			1 Resistance			
Frame :				38,5	3			2 Thermometer			
Bearing D-end :				52,4	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			1.6.2011					
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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