



Test Report				Date of issue: 16.10.2014						
				Serial No.: 3G1P141700188						
Customer:				Order No.:						
				Type: M2BAX 225SMB 4						
				Product Code: 3GBA222220-ADD						
				Protection type: IP55						
Customer ref.:										
Rating:										
				V	Hz	kW	r/min	A	cos φ	Duty
3~Motor				690	Y 50	45	1482	47,6	0,84	S1
Insul.cl.F				400	D 50	45	1482	82,3	0,84	S1
IP55				660	Y 50	45	1478	48,7	0,86	S1
				380	D 50	45	1478	85,0	0,86	S1
Eff class IE3				440	D 60	45	1782	73,4	0,85	S1
				460	D 60	45	1784	71,8	0,83	S1
				50Hz: IE3-94,2%(100%)-94,4%(75%)-94,0%(50%) 60Hz: IE3-95,0%(100%)						
Resistance				Insulation resistance at 88 °C				Overload		
Line				2000 MΩ 1000 V				Torque 160% 15s Speed 120% 120s Current 150% 15s		
Ambient: 20 °C										
U ₁ - V ₁				0,06820 Ω						
U ₁ - W ₁				0,06830 Ω						
V ₁ - W ₁				0,06820 Ω						
				High-voltage test winding 1900 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		400,7 D	50	31,3	0,94		1498	0,04		
Locked rotor test		70,4 D	50	81,0	3,46		0	0,35		
Thermal test (100% load)	290,4	400,3 D	50	82,3	47,8	45,0	1482	0,84	94,2	
Partial load points:										
~75% load	217,2	400,1 D	50	64,8	35,7	33,8	1486	0,80	94,4	
~50% load	145,3	400,6 D	50	49,2	23,9	22,5	1490	0,70	94,0	
~25% load	72,5	400,4 D	50	37,0	12,3	11,3	1495	0,48	91,2	
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method			
Stator winding :				63	1	1 Resistance				
Frame :				43	2	2 Thermocouples				
Bearing D-end :				43	2	3 Thermometer				
Rotor:				92	3					
Ambient Temperature :				25	2					
Starting current (I _S / I _N) : 7,99 Locked rotor torque (T _L / T _N) : 3,16 Pull-up torque (T _U / T _N) : 2,42 Breakdown torque (T _B / T _N) : 3,46										
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 16.10.2014										
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain						Telephone +34 93 728 85 00 Telefax +34 93 728 85 33				

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