



Test Report				Date of issue: 17.3.2015							
Customer:				Serial No.:							
				Order No.:							
Customer ref.:				Type: M3BP 225SMA 6							
				Product Code: 3GBP223210-ADL							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	30	988	34,9	0,77	S1
Insul.cl.F				400	D	50	30	988	60,4	0,77	S1
IP55				415	D	50	30	989	61,8	0,73	S1
				440	D	60	30	1189	53,5	0,79	S1
Eff class IE3				460	D	60	30	1190	52,6	0,77	S1
				50Hz: IE3-92,9%(100%)-93,0%(75%)-92,2%(50%) 60Hz: IE3-93,4%(100%)							
Resistance				Insulation resistance at 90 °C				Overload			
Line				2000 MΩ				Torque 160% 15s			
U ₁ - V ₁				1000 V				Speed 120% 120s			
U ₁ - W ₁								Current 150% 15s			
V ₁ - W ₁											
				High-voltage test winding 1900 V				60 s			
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	η[r/min]	cos φ	η[%]		
No load test		400,1 D	50	28,5	0,91		998	0,05			
Locked rotor test		77,7 D	50	55,8	2,41		0	0,32			
Thermal test (100% load)	289,7	400,5 D	50	60,4	32,4	30,0	988	0,77	92,6		
Partial load points:											
~75% load	217,4	400,4 D	50	49,1	24,3	22,5	991	0,71	92,7		
~50% load	144,5	400,3 D	50	39,4	16,3	15,0	994	0,60	91,9		
~25% load	72,3	400,4 D	50	32,1	8,6	7,5	997	0,39	87,6		
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method				
Stator winding :				63	1		1 Resistance				
Frame :				49	2		2 Thermocouples				
Bearing D-end :				44	2		3 Thermometer				
Rotor:				91	3						
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3G1P141700189, on date 2014-10-14 which is identical in design with the above.											
Starting current (I _S / I _N) : 7,73											
Locked rotor torque (T _L / T _N) : 2,90											
Pull-up torque (T _U / T _N) : 2,28											
Breakdown torque (T _B / T _N) : 3,57											
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 14.10.2014											
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Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain											
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