



Type Test Report				Date of issue: 2013.12.20							
Customer:				Serial No.: 3GH091909T2202							
Customer ref.:				Type: M3GP 90SLC 2 Product Code: 3GGP091443-_GB Protection type: Ex nA IIC T3 Gc Cert. No.: VTT 12 ATEX 050 X / IECEx VTT 12.0010 X							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor Insul.cl.F IP55 Eff class IE2				415	Y 50	2,20	2895	4,10	0,88	S1	
50Hz : IE2 - 84,0(100%) - 84,7(75%) - 83,6(50%)											
Resistance Line				Ambient: 26,0 °C				Insulation resistance at 30 °C		Overload	
U ₁ - V ₁				4,96200 Ω				R > 2000 Mohm 1000 V		Current 150 % 120s	
U ₁ - W ₁				4,95800 Ω						Torque 160 % 15s	
V ₁ - W ₁				4,97600 Ω						Speed 120 % 120s	
				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	1,56	0,13		3000	0,12			
Locked rotor test		91,7 Y	50	4,7	0,36		0	0,48			
Thermal test (100% load)	7,3	415 Y	50	4,1	2,62	2,20	2894	0,88	84,00		
Partial load points:											
~75% load	5,4	415 Y	50	3,2	1,95	1,65	2923	0,84	84,70		
~50% load	3,6	415 Y	50	2,4	1,32	1,10	2950	0,76	83,60		
~25% load	1,8	415 Y	50	1,78	0,72	0,55	2974	0,56	76,30		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				51,5	3			1 Resistance			
Frame :				17,3	3			2 Thermometer			
Bearing D-end :				21,7	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				25.5.2009			
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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