



Type Test Report				Date of issue: 2013.12.20							
Customer:				Serial No.: 3GH092209T1104							
Customer ref.:				Type: M3GP 90SLC 4 Product Code: 3GGP092444-_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	1,10	1435	2,30	0,8	S1	
50Hz : IE2 - 82,9(100%) - 82,6(75%) - 80,4(50%)											
Resistance Line				Ambient: 29,0 °C				Insulation resistance at 31 °C		Overload	
U ₁ - V ₁				9,33000 Ω				R > 2000 Mohm 1000 V		Current 150 % 120s	
U ₁ - W ₁				9,29000 Ω						Torque 160 % 15s	
V ₁ - W ₁				9,32000 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	1,35	0,11		1500	0,11			
Locked rotor test		79,1 Y	50	2,7	0,21		0	0,57			
Thermal test (100% load)	7,3	415 Y	50	2,3	1,33	1,10	1436	0,80	82,90		
Partial load points:											
~75% load	5,4	415 Y	50	1,93	1,00	0,83	1453	0,72	82,60		
~50% load	3,6	415 Y	50	1,55	0,68	0,55	1468	0,61	80,40		
~25% load	1,8	415 Y	50	1,35	0,39	0,28	1484	0,40	70,30		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				24,6	3			1 Resistance			
Frame :				11,8	3			2 Thermometer			
Bearing D-end :				17,9	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				19.6.2009			
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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