



Test Report				Date of issue: 20.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 160MLB 2					
				Product Code: 3GGP161420-ADL					
				Protection type: Ex tc IIIB/C T125C Dc					
				Cert. No.: LCIE 13 ATEX 1034 X/ IECEx					
				LCIE 13.0047 X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	15	2947	15,4	0,88	S1		
Insul.cl.F	400	D 50	15	2947	26,5	0,88	S1		
	415	D 50	15	2960	26,2	0,86	S1		
	440	D 60	15	3550	23,6	0,90	S1		
Eff class IE3	460	D 60	15	3554	22,7	0,89	S1		
50Hz: IE3-91,9%(100%)-92,2%(75%)-91,8%(50%) 60Hz: IE3-91,0%(100%)									
Resistance				Insulation resistance at 80 °C		Overload			
Line	Ambient: 22 °C			2000 MΩ 1000 V		Torque 160% 15s Speed 120% 120s Current 150% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,29820 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,29820 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,29830 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]	η[r/min]	cos φ	η [%]
No load test		400,7 D	50	8,8	0,40		2998	0,07	
Locked rotor test		62,2 D	50	27,6	1,27		0	0,43	
Thermal test (100% load)	48,7	400,3 D	50	26,5	16,2	15,0	2947	0,88	92,6
Partial load points:									
~75% load	36,5	400,4 D	50	20,7	12,1	11,3	2960	0,85	92,9
~50% load	24,3	401,3 D	50	15,4	8,1	7,5	2973	0,76	92,5
~25% load	12,2	401,4 D	50	11,1	4,2	3,8	2986	0,55	89,1
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				52	1		1 Resistance		
Frame :				22	2		2 Thermocouples		
Bearing D-end :				54	2		3 Thermometer		
Rotor :				73	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700171, on date 2014-06-05 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>									
On behalf of customer									
On behalf of manufacturer					Date of test				
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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