



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3GP 180MLA 2					
				Product Code: 3GGP181410-ADL					
				Protection type: Ex tb IIIB/C T125C Db					
				Cert. No.: LCIE 13 ATEX 3067 X					
				IECEX LCIE 13.0047 X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	22,0	2956	21,8	0,90	S1		
Insul.cl.F	400	D 50	22,0	2956	37,7	0,90	S1		
IP65	415	D 50	22,0	2959	36,7	0,89	S1		
Eff class IE3	440	D 60	22,0	3557	34,1	0,90	S1		
	460	D 60	22,0	3560	33,0	0,89	S1		
50Hz: IE3-92,7%(100%)-93,1%(75%)-92,7%(50%)									
60Hz: IE3-91,7%(100%)									
Resistance				Insulation resistance at 82 °C		Overload			
Line	Ambient: 26 °C		2000 MΩ		1000 V		Torque 160% 15s		
U ₁ - V ₁	0,21410 Ω						Speed 120% 120s		
U ₁ - W ₁	0,21400 Ω						Current 150% 15s		
V ₁ - W ₁	0,21330 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		400,4 D	50	10,4	0,49		2998	0,07	
Locked rotor test		65,8 D	50	38,0	1,86		0	0,43	
Thermal test (100% load)	71,2	400,1 D	50	37,7	23,5	22,0	2956	0,90	93,7
Partial load points:									
~75% load	53,4	402,5 D	50	28,8	17,5	16,5	2968	0,88	94,1
~50% load	35,5	400,6 D	50	20,8	11,7	11,0	2979	0,82	93,7
~25% load	17,8	400,8 D	50	14,0	6,1	5,5	2989	0,63	90,8
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				54	1		1 Resistance		
Frame :				24	2		2 Thermocouples		
Bearing D-end :				24	2		3 Thermometer		
Rotor :				68	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700177, on date 2014-06-13 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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