



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3GP 180MLB 4					
				Product Code: 3GGP182420-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	1481	24,1	0,82	S1		
Insul.cl.F	400	D 50	22,0	1481	41,4	0,82	S1		
IP65	415	D 50	22,0	1483	40,5	0,81	S1		
Eff class IE3	440	D 60	22,0	1782	37,00	0,83	S1		
	460	D 60	22,0	1784	35,80	0,82	S1		
50Hz: IE3-93,0%(100%)-93,5%(75%)-93,3%(50%)									
60Hz: IE3-93,6%(100%)									
Resistance				Insulation resistance at 96 °C		Overload			
Line	Ambient: 25 °C			2000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,18970 Ω					Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub>	0,19000 Ω					Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub>	0,19040 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	15,5	0,47		1498	0,04	
Locked rotor test		81,4 D	50	41,2	1,94		0	0,33	
Thermal test (100% load)	141,7	400,0 D	50	41,4	23,6	22,0	1481	0,82	93,3
Partial load points:									
~75% load	106,6	399,3 D	50	32,6	17,6	16,5	1486	0,78	93,8
~50% load	70,7	400,6 D	50	24,9	11,8	11,0	1491	0,68	93,6
~25% load	35,3	400,6 D	50	18,9	6,1	5,5	1495	0,46	90,9
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				59	1		1 Resistance		
Frame :				30	2		2 Thermocouples		
Bearing D-end :				36	2		3 Thermometer		
Rotor:				74	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700179, on date 2014-06-12 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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