



Test Report				Date of issue: 1.6.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3GP 180MLA 4					
				Product Code: 3GGP182410-ADL					
				Protection type: Ex nA IIC T3 Gc					
				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	18,5	1481	20,1	0,83	S1		
Insul.cl.F	400	D 50	18,5	1481	34,9	0,83	S1		
IP55	415	D 50	18,5	1482	33,8	0,82	S1		
Eff class IE3	440	D 60	18,5	1781	31,2	0,83	S1		
	460	D 60	18,5	1783	30,3	0,82	S1		
50Hz: IE3-92,6%(100%)-93,3%(75%)-92,9%(50%)									
60Hz: IE3-93,6%(100%)									
Resistance				Insulation resistance at 85 °C		Overload			
Line	Ambient: 24 °C			2000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,25500 Ω					Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub>	0,25570 Ω					Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub>	0,25500 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		400,6 D	50	13,2	0,45		1498	0,05	
Locked rotor test		84,4 D	50	34,9	1,73		0	0,34	
Thermal test (100% load)	119,7	400,7 D	50	34,9	20,0	18,5	1481	0,83	92,7
Partial load points:									
-75% load	89,2	400,1 D	50	27,3	14,9	13,9	1486	0,79	93,3
-50% load	59,8	399,9 D	50	20,7	9,9	9,3	1490	0,69	93,0
-25% load	29,7	400,6 D	50	15,6	5,1	4,6	1495	0,48	90,1
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				57	1		1 Resistance		
Frame :				26	2		2 Thermocouples		
Bearing D-end :				31	2		3 Thermometer		
Rotor:				70	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700178, on date 2014-06-19 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		
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