



Test Report				Date of issue: 22.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3GP 160MLB 4							
				Product Code: 3GGP162420-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	15,0	1477	16,5	0,82	S1
Insul.cl.F				400	D	50	15,0	1477	28,5	0,82	S1
				415	D	50	15,0	1478	27,3	0,81	S1
				440	D	60	15,0	1778	25,7	0,83	S1
Eff class IE3				460	D	60	15,0	1780	24,7	0,82	S1
				50Hz: IE3-92,1%(100%)-92,4%(75%)-91,6%(50%) 60Hz: IE3-93,0%(100%)							
Resistance				Insulation resistance at 85 °C				Overload			
Line				2000 MΩ 1000 V				Torque 160% 15s Speed 120% 120s Current 150% 15s			
U ₁ - V ₁				Ambient: 25 °C							
U ₁ - W ₁				0,27690 Ω							
V ₁ - W ₁				0,27660 Ω							
				0,27650 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	11,7	0,47		1498	0,06			
Locked rotor test		76,2 D	50	28,4	1,22		0	0,33			
Thermal test (100% load)	96,7	400,5 D	50	28,5	16,2	15,0	1477	0,82	92,5		
Partial load points:											
~75% load	72,3	400,2 D	50	22,7	12,1	11,3	1483	0,77	92,7		
~50% load	48,4	400,4 D	50	17,7	8,2	7,5	1489	0,67	92,0		
~25% load	24,3	400,5 D	50	13,7	4,3	3,8	1495	0,45	87,8		
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method				
Stator winding :				50	1		1 Resistance				
Frame :				31	2		2 Thermocouples				
Bearing D-end :				35	2		3 Thermometer				
Rotor:				68	3						
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3G1P141700174, on date 2014-07-01 which is identical in electrical design with the above.											
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											
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											

Computer print-out valid without signature.