



Test Report				Date of issue: 25.5.2015					
Customer:				Serial No.:					
				Order No.:					
Customer ref.:				Type: M3GP 160MLB 4K					
				Product Code: 3GGP162420-ADK					
				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	15,0	1474	16,1	0,84	S1	
Insul.cl.F		400	D 50	15,0	1474	27,8	0,84	S1	
IP55		660	Y 50	15,0	1471	17,0	0,85	S1	
		380	D 50	15,0	1471	29,0	0,85	S1	
		415	D 50	15,0	1477	27,0	0,83	S1	
Eff class IE3		460	D 60	15,0	1778	24,3	0,83	S1	
		50Hz : IE3-92,6(100%)-93,4(75%)-93,2(50%)							
60Hz : IE3-93,1(100%)									
Resistance				Insulation resistance at 23 °C			Overload		
Line		Ambient: 21,4 °C		R > 2000 Mohm		1000 V		Current 150 % 120s	
U ₁ - V ₁		0,2964 Ω						Torque 160 % 15s	
U ₁ - W ₁		0,2951 Ω						Speed 120 % 120s	
V ₁ - W ₁		0,2952 Ω							
High-voltage test winding						2400 V		60 s	
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400 D	50	11,2	0,35		1500	0,05	
Locked rotor test		76 D	50	27,2	1,07		0	0,30	
Thermal test (100% load)	97,2	400 D	50	28,4	16,18	15,00	1474	0,82	92,72
Partial load points:									
~75% load	73,5	400 D	50	22,7	12,22	11,40	1481	0,78	93,25
~50% load	48,9	400 D	50	17,4	8,19	7,63	1488	0,68	93,10
~25% load	25,2	400 D	50	13,3	4,35	3,94	1494	0,47	90,48
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				50,1	1			1 Resistance	
Frame :				36,0	2			2 Thermometer	
Bearing D-end :				35,6	2			3 Thermocouples	
Ambient Temperature :				23	2				
<p>These tests have been carried out on motor no. 3GV1110794430001, on date 2011-11-16 which is identical in electrical 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 ABB AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00			
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