



Test Report				Date of issue: 21.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 160MLA 4					
				Product Code: 3GGP162410-ADK					
				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	11,0	1473	11,8	0,84	S1	
Insul.cl.F		400	D 50	11,0	1473	20,4	0,84	S1	
		660	Y 50	11,0	1469	12,5	0,85	S1	
		380	D 50	11,0	1469	21,3	0,85	S1	
		415	D 50	11,0	1476	19,9	0,83	S1	
Eff class IE3		460	D 60	11,0	1777	17,9	0,83	S1	
		50Hz : IE3-92,2(100%)-93,0(75%)-92,7(50%)							
		60Hz : IE3-92,7(100%)							
Resistance				Insulation resistance at 22 °C		Overload			
Line		Ambient: 21,2 °C		R > 2000 Mohm 1000 V		Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>		0,4389 Ω				Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>		0,4409 Ω				Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>		0,4386 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	7,9	0,29		1500	0,05	
Locked rotor test		80 D	50	19,7	0,81		0	0,29	
Thermal test ( 100% load )	71,2	400 D	50	20,8	11,91	11,00	1474	0,83	92,34
Partial load points:									
~75% load	54,3	400 D	50	16,6	9,06	8,42	1481	0,79	92,86
~50% load	35,5	400 D	50	12,5	5,97	5,53	1488	0,69	92,61
~25% load	18,3	400 D	50	9,5	3,19	2,86	1494	0,49	89,70
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				40,5	1	1 Resistance			
Frame :				26,4	2	2 Thermometer			
Bearing D-end :				25,4	2	3 Thermocouples			
Ambient Temperature :				22	2				
<p>These tests have been carried out on motor no. 3GV1110796485001, on date 2011-10-13 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> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p>Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden</p> <p>Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22</p>									

Computer print-out valid without signature.