



Test Report				Date of issue: 25.5.2015						
Customer:				Serial No.:						
Customer ref.:				Order No.:						
				Type: M3GP 180MLA 4						
				Product Code: 3GGP182410-ADK						
				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	18,5	1481	20,2	0,82	S1		
Insul.cl.F		400	D 50	18,5	1481	34,9	0,82	S1		
IP65		660	Y 50	18,5	1478	21,1	0,83	S1		
		380	D 50	18,5	1478	36,4	0,83	S1		
		415	D 50	18,5	1482	34,0	0,81	S1		
		460	D 60	18,5	1482	30,6	0,81	S1		
Eff class IE3		50Hz : IE3-93,3(100%)-94,0(75%)-93,8(50%) 60Hz : IE3-93,6(100%)								
Resistance				Insulation resistance at 23 °C			Overload			
Line Ambient: 22,4 °C				R > 2000 Mohm 1000 V			Current 150 % 120s			
U ₁ - V ₁ 0,2211 Ω							Torque 160 % 15s			
U ₁ - W ₁ 0,2202 Ω							Speed 120 % 120s			
V ₁ - W ₁ 0,2202 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	14,0	0,42		1500	0,04		
Locked rotor test		76 D	50	34,0	1,30		0	0,3		
Thermal test (100% load)	119,1	400 D	50	34,9	19,76	18,50	1483	0,82	93,62	
Partial load points:										
~75% load	89,9	400 D	50	27,8	14,90	14,01	1488	0,77	94,02	
~50% load	59,6	400 D	50	21,4	9,95	9,31	1492	0,67	93,62	
~25% load	29,2	400 D	50	16,4	5,06	4,58	1497	0,45	90,47	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				46,7	46,7	1		1 Resistance		
Frame :				31,5	31,5	2		2 Thermometer		
Bearing D-end :				32,2	32,2	2		3 Thermocouples		
Ambient Temperature :				23	23	2				
<p>These tests have been carried out on motor no. 3GV1110779332001, on date 2011-09-28 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		Telefax +46 (0)21 32 90 22		

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