



Test Report				Date of issue: 29.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 225SMB 4					
				Product Code: 3GGP222220-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	45,0	1482	46,5	0,85	S1		
Insul.cl.F	400	D 50	45,0	1482	80,2	0,85	S1		
IP55	660	Y 50	45,0	1479	48,3	0,86	S1		
	380	D 50	45,0	1479	83,9	0,86	S1		
	415	D 50	45,0	1483	78,3	0,84	S1		
	460	D 60	45,0	1483	70,5	0,84	S1		
Eff class IE3	50Hz : IE3-95,2(100%)-95,6(75%)-95,5(50%)								
	60Hz : IE3-95,3(100%)								
Resistance			Insulation resistance at 24 °C		Overload				
Line	Ambient: 24,2 °C		R > 2000 Mohm 1000 V		Current 150 % 120s				
U ₁ - V ₁	0,06776 Ω				Torque 160 % 15s				
U ₁ - W ₁	0,06779 Ω				Speed 120 % 120s				
V ₁ - W ₁	0,06779 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		398,9 D	50	28,7	0,64		1500	0,03	
Locked rotor test		71,3 D	50	80,6	3,36		0	0,34	
Thermal test (100% load)	290,2	400 D	50	80,4	47,27	45,00	1481	0,85	95,19
Partial load points:									
~75% load	219,1	400 D	50	63,4	35,66	34,09	1486	0,81	95,61
~50% load	147,1	400 D	50	47,7	24,04	22,97	1491	0,73	95,55
~25% load	74,9	400 D	50	35,1	12,51	11,73	1496	0,51	93,82
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method		
Stator winding :				68,6	1		1 Resistance		
Frame :				54,3	2		2 Thermometer		
Bearing D-end :				46,4	2		3 Thermocouples		
Ambient Temperature :			25		2				
<p>These tests have been carried out on motor no. 3GV1110796900001, on date 2011-09-20 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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