



Test Report				Date of issue: 27.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3JP 225SMA 2							
				Product Code: 3GJP221210-ADK							
				Protection type: Ex d IIB T4 Gb							
				Cert. No.: LCIE 10 ATEX 3057X/							
				IECEX LCI 04.0005X							
Rating:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3-Motor		690	Y 50	45,0	2972	44,5	0,89	S1			
Insul.cl.F		400	D 50	45,0	2972	76,8	0,89	S1			
IP55		660	Y 50	45,0	2968	46,8	0,89	S1			
		380	D 50	45,0	2968	81,2	0,89	S1			
		415	D 50	45,0	2974	74,0	0,89	S1			
		460	D 60	45,0	3575	66,8	0,89	S1			
Eff class IE3		50Hz : IE3-94,9(100%)-95,2(75%)-94,8(50%)									
		60Hz : IE3-94,4(100%)									
Resistance				Insulation resistance at 22 °C				Overload			
Line		Ambient: 22,8 °C		R > 2000 Mohm		1000 V		Current 150 % 120s			
U ₁ - V ₁		0,05380 Ω						Torque 160 % 15s			
U ₁ - W ₁		0,05375 Ω						Speed 120 % 120s			
V ₁ - W ₁		0,05382 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		400,5 D	50	18,3	0,82		3000	0,06			
Locked rotor test		70,8 D	50	77,2	3,40		0	0,36			
Thermal test (100% load)	144,6	400 D	50	75,9	47,14	45,00	2972	0,90	95,46		
Partial load points:											
~75% load	110,0	400 D	50	59,3	35,90	34,32	2980	0,87	95,61		
~50% load	73,8	400 D	50	42,3	24,24	23,08	2987	0,83	95,21		
~25% load	38,6	400 D	50	27,8	13,01	12,10	2995	0,68	93,00		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				49,5	49,5	1		1 Resistance			
Frame :				30,5	30,5	2		2 Thermometer			
Bearing D-end :				28,6	28,6	2		3 Thermocouples			
Ambient Temperature :				24	24	2					
<p>These tests have been carried out on motor no. 3GV1110779325001, 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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