



Test Report				Date of issue: 22.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3JP 160MLB 2K					
				Product Code: 3GJP161420-ADK					
				Protection type: Ex d IIB T4 Gb					
				Cert. No.: LCIE 11 ATEX 3087X / IECEx LCI 09.0008X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	15,0	2943	14,7	0,92	S1		
Insul.cl.F	400	D 50	15,0	2943	25,4	0,92	S1		
IP55	660	Y 50	15,0	2935	15,4	0,93	S1		
	380	D 50	15,0	2935	26,5	0,93	S1		
Eff class IE3	415	D 50	15,0	2948	24,7	0,91	S1		
	460	D 60	15,0	3552	22,1	0,92	S1		
50Hz : IE3-92,5(100%)-93,4(75%)-93,2(50%) 60Hz : IE3-92,3(100%)									
Resistance				Insulation resistance at 22 °C		Overload			
Line	Ambient: 22,4 °C			R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁	0,2831 Ω								
U ₁ - W ₁	0,2815 Ω								
V ₁ - W ₁	0,2814 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	7,4	0,36		3000	0,07	
Locked rotor test		56 D	50	29,2	1,09		0	0,39	
Thermal test (100% load)	48,5	400 D	50	25,7	16,11	15,00	2951	0,90	93,10
Partial load points:									
~75% load	35,9	400 D	50	19,7	11,91	11,14	2963	0,87	93,50
~50% load	22,3	400 D	50	13,7	7,49	6,96	2978	0,79	93,00
~25% load	12,0	400 D	50	9,9	4,16	3,75	2988	0,61	90,19
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				41,1	1		1 Resistance		
Frame :				22,2	2		2 Thermometer		
Bearing D-end :				20,7	2		3 Thermocouples		
Ambient Temperature :				22	2				
These tests have been carried out on motor no. 3GV1110777052001, on date 2011-10-06 which is identical in electrical design with the above.									
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.									
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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