



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 180MLA 4 Product Code: 3GJM182410-_DK Protection type: Ex d I Mb Cert. No.: LCIE 11 ATEX 3088X / IECEX LC1 09.0009X							
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
IP66				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			
U ₁ - V ₁				0,22110 Ω				Torque 160 % 15s			
U ₁ - W ₁				0,22020 Ω							
V ₁ - W ₁				0,22020 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		400,0 D	50	14,0	0,42		1500	0,04			
Locked rotor test		76,0 D	50	34,0	1,30		0	0,3			
Thermal test (100% load	119,1	400,0 D	50	34,9	19,8	18,5	1483	0,82	93,6		
Partial load points:											
~75% load	89,9	400,0 D	50	27,8	14,9	14,0	1488	0,77	94,0		
~50% load	59,6	400,0 D	50	21,4	9,95	9,31	1492	0,67	93,6		
~25% load	29,2	400,0 D	50	16,4	5,06	4,58	1497	0,45	90,5		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				47	1			1 Resistance			
Frame :				32	2			2 Thermocouples			
Bearing D-end :				32	2			3 Thermometer			
Ambient Temperature :				23	2						
These tests have been carried out on motor no. 3GV1110779332001, on date 2011-09-28 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											
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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