



Test Report				Date of issue: 25.11.2015					
				Type: M3JM 180MLA 2					
				Product Code: 3GJM181410-_DH					
				Protection type: Ex d I Mb					
				Cert. No.: LCIE 11 ATEX 3088X / IECEX LCI 09.0009X					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	22	2938	22,7	0,90	S1	
Insul.cl.F		400	D 50	22	2938	39,1	0,90	S1	
IP66		415	D 50	22	2943	38,0	0,89	S1	
Eff class IE2		50Hz : IE2 - 91.7%(100%) - 92.3%(75%) - 91.8%(50%)							
Resistance			Insulation resistance at 23 °C			Overload			
Line			Ambient: 23 °C			20000 MΩ 1000 V			
U ₁ - V ₁			0,24720 Ω			Torque 160% 15s			
U ₁ - W ₁			0,24710 Ω						
V ₁ - W ₁			0,24750 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]	η[r/min]	cos φ	η [%]
No load test		400,0	D 50	10,1	0,71		2998	0,10	
Locked rotor test		74,3	D 50	39,5	2,11		0	0,42	
Thermal test (100% load)	71,4	400,0	D 50	39,1	24,1	22,0	2941	0,89	91,3
Partial load points:									
~75% load	53,6	400,1	D 50	29,8	18,0	16,5	2959	0,87	91,9
~50% load	35,7	400,2	D 50	21,3	12,0	11,00	2972	0,82	91,4
~25% load	18,0	400,2	D 50	14,0	6,29	5,50	2987	0,65	87,4
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method	
Stator winding :		73		1				1 Resistance	
Frame :		29		2				2 Thermocouples	
Bearing D-end :		35		2				3 Thermometer	
Rotor:		98		3					
Ambient Temperature :		25		2					
<p>These tests have been carried out on motor no. 0801-010228065, on date 2008-08-06, 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									
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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