



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 315SMC 6							
				Product Code: 3GJM313230_DL							
				Protection type: Ex d I Mb							
				Cert. No.: LCIE 11 ATEX 3090 X / IECEx LCI 04.0007X							
Rating:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3~Motor		690	Y 50	90	994	94,5	0,84	S1			
Insul.cl.F		400	D 50	90	994	164	0,84	S1			
IP66		415	D 50	90	994	159	0,83	S1			
		440	D 60	90	1194	147	0,85	S1			
		460	D 60	90	1195	143	0,84	S1			
Eff class IE3		50Hz : IE3-94.9%(100%)-95.1%(75%)-94.7%(50%)									
		60Hz : IE3-95.0%(100%)									
Resistance				Insulation resistance at 39 °C			Overload				
Line		Ambient: 24 °C		1000 V			Torque 160% 15s				
U ₁ - V ₁		0,03247 Ω									
U ₁ - W ₁		0,03247 Ω									
V ₁ - W ₁		0,03245 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		399,9 D	50	53,2	1,63		1000	0,04			
Locked rotor test		85,9 D	50	162,0	5,76		0	0,24			
Thermal test (100% load)	864,7	400,1 D	50	163,6	94,7	90,0	994	0,84	95,1		
Partial load points:											
~75% load	651,0	400,2 D	50	127,3	70,8	67,5	996	0,80	95,3		
~50% load	429,2	400,2 D	50	95,1	47,4	45,0	997	0,72	95,0		
~25% load	218,8	400,2 D	50	69,1	24,3	22,5	999	0,51	92,4		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				47	1			1 Resistance			
Frame :				24	2			2 Thermocouples			
Bearing D-end :				34	2			3 Thermometer			
Rotor:				52	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3GF13172204, on date 2013-08-21 which is identical in 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					
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