



Test Report				Date of issue: 19.11.2015					
				Type: M3JM 315SMD 6					
				Product Code: 3GJM313240-_DK					
				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	98	0,81	S1	
Insul.cl.F		400	D 50	90	994	170	0,81	S1	
IP66		660	Y 50	90	993	100	0,83	S1	
		380	D 50	90	993	174	0,83	S1	
		415	D 50	90	994	167	0,79	S1	
		460	D 60	90	1195	149	0,80	S1	
Eff class IE3		50Hz : IE3 - 95.5%(100%)-95.8%(75%)-95.5%(50%)							
		60Hz : IE3 - 95.7%(100%)							
Resistance				Insulation resistance at 40 °C			Overload		
Line		Ambient: 22 °C		31000 MΩ		1000 V		Torque 160 % 15s	
U ₁ - V ₁		0,02545 Ω							
U ₁ - W ₁		0,02548 Ω							
V ₁ - W ₁		0,02547 Ω							
				High-voltage test winding		2400 V		60 s	
Test		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	69,3	1,32		1000	0,03	
Locked rotor test		76,9 D	50	163,1	5,70		0	0,26	
Thermal test (100% load)		400,1 D	50	170,0	93,8	90,0	994	0,80	96,0
Partial load points:									
~75% load		400,0 D	50	135,0	70,2	67,5	996	0,75	96,2
~50% load		400,0 D	50	104,3	46,9	45,0	997	0,65	95,9
~25% load		400,1 D	50	80,7	24,0	22,5	999	0,43	93,8
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				43	1			1 Resistance	
Frame :				24	2			2 Thermocouples	
Bearing D-end :				31	2			3 Thermometer	
Rotor:				52	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3GF10042451, on date 2010-09-28 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> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p>									
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