



Test Report				Date of issue: 19.11.2015						
				Type: M3JM 315LKA 4						
				Product Code: 3GJM312810_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	250	1488	256	0,85	S1		
Insul.cl.F		400	D 50	250	1488	442	0,85	S1		
IP66		415	D 50	250	1489	431	0,84	S1		
		440	D 60	250	1789	397	0,86	S1		
		460	D 60	250	1790	385	0,85	S1		
Eff class IE3		50Hz : IE3 - 96.0%(100%) - 96.3%(75%) - 96.1%(50%) 60Hz : IE3 - 96.2%(100%)								
Resistance				Insulation resistance at 31 °C			Overload			
Line		Ambient: 23 °C		22000 MΩ		1000 V		Torque 160% 15s		
U ₁ - V ₁		0,00787 Ω								
U ₁ - W ₁		0,00787 Ω								
V ₁ - W ₁		0,00786 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		400,3 D	50	170,3	3,24		1500	0,03		
Locked rotor test		65,7 D	50	445,0	16,6		0	0,33		
Thermal test (100% load)	1605	400,2 D	50	444,6	260,4	250,0	1488	0,85	96,0	
Partial load points:										
~75% load	1205	400,1 D	50	349,7	194,8	187,5	1491	0,80	96,3	
~50% load	798,0	400,1 D	50	265,0	130,0	125,0	1494	0,71	96,1	
~25% load	408,0	400,1 D	50	199,2	66,2	62,5	1497	0,48	94,4	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				65	1			1 Resistance		
Frame :				23	2			2 Thermocouples		
Bearing D-end :				40	2			3 Thermometer		
Rotor :				106	3					
Ambient Temperature :				25	2					
These tests have been carried out on motor no. 3GF13169080, on date 2013-08-13 which is identical in 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 Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372				

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