



Test Report				Date of issue: 19.11.2015						
				Type: M3JM 315MLB 4						
				Product Code: 3GJM312420-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	200	1487	203	0,86	S1		
Insul.cl.F		400	D 50	200	1487	351	0,86	S1		
IP66		415	D 50	200	1488	340	0,85	S1		
		440	D 60	200	1788	314	0,87	S1		
		460	D 60	200	1788	305	0,86	S1		
Eff class IE3		50Hz : IE3-96.0%(100%)-96.4(75%)-96.4(50%)								
		60Hz : IE3-96.2%(100%)								
Resistance				Insulation resistance at 50 °C				Overload		
Line		Ambient: 24 °C		15000 MΩ		1000 V				
U <sub>1</sub> - V <sub>1</sub>		0,01078 Ω								
U <sub>1</sub> - W <sub>1</sub>		0,01077 Ω								
V <sub>1</sub> - W <sub>1</sub>		0,01077 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	120,2	2,12		1500	0,03		
Locked rotor test		68,1 D	50	349,2	13,4		0	0,32		
Thermal test (100% load)	1284	400,2 D	50	350,6	208,2	200,0	1488	0,86	96,1	
Partial load points:										
~75% load	964,5	400,4 D	50	272,6	155,5	150,0	1491	0,82	96,5	
~50% load	644,0	400,5 D	50	202,7	103,6	100,0	1494	0,74	96,5	
~25% load	325,8	400,1 D	50	147,3	52,6	50,0	1497	0,52	95,1	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				66	1			1 Resistance		
Frame :				25	2			2 Thermocouples		
Bearing D-end :				43	2			3 Thermometer		
Rotor:				87	3					
Ambient Temperature :		25			2					
<p>These tests have been carried out on motor no. 3GF13169079C, on date 2013-08-07 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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