



Test Report				Date of issue: 23.11.2015						
				Type: M3JM 315SMA 4						
				Product Code: 3GJM312210-_DG						
				Protection type: Ex d I Mb						
				Cert. No.: LCIE 11 ATEX 3090X / IECEx LCI 04.0007X						
Rating:										
		V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor		690	Y 50	110	1487	112	0,86	S1		
Insul.cl.F		400	D 50	110	1487	194	0,86	S1		
IP66		415	D 50	110	1488	189	0,85	S1		
Eff class IE2		50Hz: IE2 - 95,1%(100%) - 95,1%(75%) - 94,3%(50%)								
Resistance				Insulation resistance at 51 °C			Overload			
Line		Ambient: 20 °C		31000 MΩ 1000 V			Torque 160 % 15s			
U <sub>1</sub> - V <sub>1</sub>		0,02024 Ω								
U <sub>1</sub> - W <sub>1</sub>		0,02022 Ω								
V <sub>1</sub> - W <sub>1</sub>		0,02023 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		400,0 D	50	61,7	2,09		1500	0,05		
Locked rotor test		74,6 D	50	194,1	7,13		0	0,28		
Thermal test (100% load)	706,5	400,4 D	50	195,7	115,5	110,0	1489	0,85	95,2	
Partial load points:										
~75% load	531,1	400,2 D	50	152,3	86,6	82,5	1491	0,82	95,3	
~50% load	352,5	400,5 D	50	112,5	58,0	55,0	1494	0,74	94,9	
~25% load	174,3	400,0 D	50	79,8	29,8	27,5	1498	0,54	92,2	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method		
Stator winding :				55	1			1 Resistance		
Frame :				25	2			2 Thermocouples		
Bearing D-end :				38	2			3 Thermometer		
Ambient Temperature :				25	2					
<p>These tests have been carried out on motor no. 3GF10051625, on date 2010-11-16, 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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