



Test Report				Date of issue: 19.11.2015							
				Type: M3JM315SMB 4							
				Product Code: 3GJM312220-_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	110	1489	115	0,84	S1			
Insul.cl.F		400	D 50	110	1489	195	0,84	S1			
IP66		415	D 50	110	1490	193	0,83	S1			
		440	D 60	110	1790	178	0,85	S1			
		460	D 60	110	1791	172	0,84	S1			
Eff class IE3		50Hz: IE3-95.4%(100%)-95.5%(75%)-94.9%(50%) 60Hz: IE3-95.8%(100%)									
Resistance				Insulation resistance at 41 °C			Overload				
Line		Ambient: 24 °C		11000 MΩ 1000 V			Torque 160% 15s				
U <sub>1</sub> - V <sub>1</sub>		0,02196 Ω									
U <sub>1</sub> - W <sub>1</sub>		0,02195 Ω									
V <sub>1</sub> - W <sub>1</sub>		0,02196 Ω									
				High-voltage test winding 1900 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	69,2	2,04		1500	0,04			
Locked rotor test		67,4 D	50	195,1	6,61		0	0,29			
Thermal test (100% load)	705,3	400,2 D	50	197,2	115,1	110,0	1489	0,84	95,6		
Partial load points:											
~75% load	527,9	400,1 D	50	154,4	86,3	82,5	1492	0,81	95,7		
~50% load	351,3	400,2 D	50	115,9	57,8	55,0	1495	0,72	95,2		
~25% load	175,3	400,2 D	50	85,6	29,7	27,5	1498	0,50	92,5		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				48	1			1 Resistance			
Frame :				26	2			2 Thermocouples			
Bearing D-end :				31	2			3 Thermometer			
Rotor :				63	3						
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3GF13169081, on date 2013-08-16 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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