



Test Report				Date of issue: 19.11.2015							
				Type: M3JM 355SMC 4							
				Product Code: 3GJM352230_DL							
				Protection type: Ex d I Mb							
				Cert. No.: LCIE 10 ATEX 3089 X / IECEX LCI 04.0008X							
Rating:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3~Motor		690	Y 50	355	1490	360	0,86	S1			
Insul.cl.F		400	D 50	355	1490	616	0,86	S1			
IP66		415	D 50	355	1491	605	0,85	S1			
		440	D 60	355	1790	557	0,87	S1			
		460	D 60	355	1791	541	0,86	S1			
Eff class IE3		50Hz : IE3 - 96.0%(100%) - 96.2%(75%) - 95.8%(50%) 60Hz : IE3 - 96.2%(100%)									
Resistance				Insulation resistance at 48 °C			Overload				
Line		Ambient: 24 °C		13000 MΩ 1000 V			Torque 160% 15s				
U <sub>1</sub> - V <sub>1</sub>		0,00434 Ω									
U <sub>1</sub> - W <sub>1</sub>		0,00434 Ω									
V <sub>1</sub> - W <sub>1</sub>		0,00435 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		400,1 D	50	179,5	5,19		1500	0,04			
Locked rotor test		70,2 D	50	617,5	22,0		0	0,29			
Thermal test (100% load)	2275	400,4 D	50	616,4	368,9	355,0	1491	0,86	96,2		
Partial load points:											
~75% load	1725	400,4 D	50	474,4	276,2	266,3	1494	0,84	96,4		
~50% load	1135	400,7 D	50	344,2	184,8	177,5	1496	0,78	96,1		
~25% load	566,4	401,0 D	50	235,8	94,5	88,8	1498	0,58	93,9		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				71	1			1 Resistance			
Frame :				22	2			2 Thermocouples			
Bearing D-end :				41	2			3 Thermometer			
Rotor :				106	3						
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3GF13167852, on date 2013-08-11 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> <p>Telephone +358 10 2211 Telefax +358 10 22 47372</p>											

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