



Test Report				Date of issue: 24.11.2015							
				Type: M3JM 250SMA 6							
				Product Code: 3GJM253210-_DG							
				Protection type: Ex d I Mb							
				Cert. No.: LCIE 10 ATEX 3063X / IECEx LCI 04.0012X							
Rating:											
		V	Hz	kW	r/min	A	cos φ	Duty			
3~Motor		690	Y 50	37	990	41	0,81	S1			
Insul.cl.F		400	D 50	37	990	70,6	0,81	S1			
IP66		415	D 50	37	991	68,9	0,81	S1			
Eff class IE2		50Hz : IE2 - 93.2%(100%) - 93.7%(75%) - 93.1%(50%)									
Resistance				Insulation resistance at 38 °C			Overload				
Line		Ambient: 19 °C		4300 MΩ 1000 V			Torque 160 % 15s				
U <sub>1</sub> - V <sub>1</sub>		0,12436 Ω									
U <sub>1</sub> - W <sub>1</sub>		0,12432 Ω									
V <sub>1</sub> - W <sub>1</sub>		0,12433 Ω									
				High-voltage test winding 2900 V			1 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	25,9	0,86		1000	0,05			
Locked rotor test		85,7 D	50	70,8	4,14		0	0,39			
Thermal test ( 100% load )	358,0	400,0 D	50	70,0	40,0	37,0	987	0,82	92,6		
Partial load points:											
~75% load	268,6	400,1 D	50	54,4	29,9	27,8	989	0,79	93,0		
~50% load	178,9	400,1 D	50	40,7	19,9	18,5	994	0,71	92,9		
~25% load	89,4	400,1 D	50	30,0	10,3	9,3	997	0,49	90,1		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				62	1	1		1 Resistance			
Frame :				41	2	2		2 Thermocouples			
Bearing D-end :				46	2	2		3 Thermometer			
Ambient Temperature :				25	2						
<p>These tests have been carried out on motor no. 3GF11094430, on date 2012-02-05, 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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