Test Report

Date of issue: 19.11.2015

Type: M3JM 250SMA 6
Product Code: 3GJM253210-_DL
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	41,5	0,80	S1
Insul.cl.F	400	D	50	37	990	71,1	0,80	S1
IP66	415	D	50	37	990	69,8	0,79	S1
	440	D	60	37	1190	63,8	0,81	S1
Eff class IE3	460	D	60	37	1191	61,8	0,8	S1

50Hz: IE3-93,3%(100%)-93,7%(75%)-93,5%(50%)
60Hz: IE3-93,7%(100%)

Resistance
Line Ambient: 21 °C
U_1 - V_1 0,11370 Ω
U_1 - W_1 0,11400 Ω
V_1 - W_1 0,11360 Ω

Insulation resistance at 86 °C
2000 MΩ 1000 V

Overload
Torque 160% 15s

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		400,6	D	50	27,8	0,80		998	0,04	
Locked rotor test		82,5	D	50	69,1	3,53		0	0,36	
Thermal test (100% load)	357,1	400,7	D	50	71,1	39,7	37,0	990	0,81	93,3
Partial load points:										
~75% load	268,2	400,2	D	50	56,0	29,6	27,8	992	0,76	93,7
~50% load	178,8	400,2	D	50	42,8	19,8	18,5	995	0,67	93,5
~25% load	88,9	400,8	D	50	32,7	10,2	9,25	997	0,45	90,6

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		58	1
Frame :		44	2
Bearing D-end :		43	2
Rotor:		76	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3G1P141700192, on date 2014-09-26
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

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