Test Report

Date of issue: 19.11.2015

Type: M3JM 355SMB 4
Product Code: 3GJM352220-_DK
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	250	1491	251	0,87	S1
Insul.cl.F	400	D	50	250	1491	433	0,87	S1
IP66	660	Y	50	250	1490	259	0,88	S1
	380	D	50	250	1490	450	0,88	S1
	415	D	50	250	1492	421	0,86	S1
	460	D	60	250	1792	381	0,86	S1

Eff class IE3
50Hz : IE3 - 96.6%(100%)-96.8%(75%)-96.6%(50%)
60Hz : IE3 - 96.7%(100%)

Resistance
Line Ambient: 23 °C
U_1 - V_1 0,00563 Ω
U_1 - W_1 0,00563 Ω
V_1 - W_1 0,00563 Ω

Insulation resistance at 48 °C
13000 MΩ 1000 V

Overload
Torque 160 % 15s

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	143,6	2,40		1500	0,02	
Locked rotor test		63,0	D	50	428,7	13,5		0	0,29	
Thermal test (100% load)	1601	400,1	D	50	433,4	257,6	250,0	1491	0,86	97,1
Partial load points:										
~75% load	1199	400,1	D	50	337,0	192,9	187,5	1494	0,83	97,2
~50% load	800,0	400,1	D	50	249,4	128,8	125,0	1496	0,75	97,0
~25% load	404,0	400,1	D	50	178,4	65,4	62,5	1498	0,53	95,5

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		51	1
Frame :		25	2
Bearing D-end :		38	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF11094697, on date 2011-12-15 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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