Test Report

Date of issue: 23.11.2015

Type: M3JM 355SMC 8
Product Code: 3GJM354230-_DG
Protection type: Ex d I Mb
Cert. No.: LCIE 10 ATEX 3089X / IECEx LCI 04.0008X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	185	743	208	0,78	S1
Insul.cl.F	400	D	50	185	743	358	0,78	S1
IP66	415	D	50	185	743	354	0,76	S1

Eff class IE4 — 50Hz: IE4 - 95,4%(100%) - 95,6%(75%) - 95,3%(50%)

Resistance
Line — Ambient: 14 °C

U_1 - V_1	0,01172	Ω
U_1 - W_1	0,01171	Ω
V_1 - W_1	0,01172	Ω

Insulation resistance at 14 °C
R > 2000 Mohm 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		401,1	D	50	159,1	3,17		750	0,03	
Locked rotor test		85,2	D	50	360,7	12,69		0	0,24	
Thermal test (100% load)	2379	400	D	50	359,7	193,93	185,00	743	0,78	95,40
Partial load points:										
~75% load	1778	400	D	50	287,2	145,13	138,75	745	0,73	95,60
~50% load	1182	400	D	50	224,3	97,09	92,50	747	0,63	95,30
~25% load	590,6	400	D	50	177,3	49,87	46,25	748	0,41	92,70

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		61	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. 75033778004001B, on date 2011-12-19, which is identical in electrical 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 Shanghai Motors , LV Motors, Shanghai,P.R.China

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