Test Report

Date of issue: 23.11.2015

Type: M3JM 315SMB 4
Product Code: 3GJM312220-_DG
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3090X / IECEx LCI 04.0007X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	132	1487	134	0,86	S1
Insul.cl.F	400	D	50	132	1487	232	0,86	S1
IP66	415	D	50	132	1488	226	0,85	S1

Eff class IE2 — 50Hz: IE2 - 95,4%(100%) - 95,4%(75%) - 94,7%(50%)

Resistance
Line — Ambient: 21 °C
U_1 - V_1 0,01680 Ω
U_1 - W_1 0,01679 Ω
V_1 - W_1 0,01678 Ω

Insulation resistance at 60 °C
15000 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	72,1	2,19		1500	0,04	
Locked rotor test		73,9	D	50	232,0	9,42		0	0,32	
Thermal test (100% load)	847,7	400,0	D	50	234,8	138,3	132,0	1487	0,85	95,4
Partial load points:										
~75% load	631,0	400,1	D	50	181,5	103,5	99,0	1491	0,82	95,7
~50% load	427,5	400,1	D	50	133,5	69,2	66,0	1494	0,75	95,4
~25% load	215,0	400,1	D	50	93,9	35,5	33,0	1497	0,55	93,1

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		62	1
Frame :		27	2
Bearing D-end :		46	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF10021467, on date 2010-04-20, 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 Oy, Motors and Generators, Vaasa, Finland

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