Test Report

Date of issue: 19.11.2015

Type: M3JM 315SMA 8
Product Code: 3GJM314210-_DL
Protection type: Ex d I Mb
Cert. No.: LCIE 11 ATEX 3090 X / IECEx LCI 04.0007X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	55	742	61,7	0,80	S1
Insul.cl.F	400	D	50	55	742	106	0,80	S1
	415	D	50	55	743	104	0,79	S1
IP66	440	D	60	55	892	95,8	0,81	S1
	460	D	60	55	893	92,8	0,80	S1

Eff class IE3

50Hz : IE3-92.5%(100%) - 93.1%(75%) - 92.5%(50%)
60Hz : IE2-93.0%(100%)

Resistance
Line Ambient: 20,0 °C
U_1 - V_1 0,06709 Ω
U_1 - W_1 0,06722 Ω
V_1 - W_1 0,06707 Ω

Insulation resistance at 43,0 °C
21000 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	42,7	1,38		750	0,05	
Locked rotor test		88,1	D	50	104,1	3,64		0	0,23	
Thermal test (100% load)	707,9	400,1	D	50	106,1	58,9	55,0	742	0,80	93,3
Partial load points:										
~75% load	528,0	400,1	D	50	83,9	44,0	41,3	746	0,76	93,8
~50% load	350,7	400,1	D	50	64,7	29,5	27,5	748	0,66	93,3
~25% load	175,0	400,1	D	50	49,7	15,3	13,8	749	0,44	90,0

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		44	1
Frame :		26	2
Bearing D-end :		30	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF10021103, on date 2010-05-04 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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