Test Report

Date of issue: 5.12.2014

Serial No.:

Customer:

Customer ref.:

Type: M2BAX 315MLB 4 IMB3/IM1001

Product Code: 3GBA312420-ADM

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	200	1487	203	0,86	S1
Insul.cl.F	400	D	50	200	1487	351	0,86	S1
IP55	660	Y	50	200	1485	210	0,87	S1
	380	D	50	200	1485	364	0,87	S1
Eff class IE3	440	D	60	200	1788	314	0,87	S1
	460	D	60	200	1788	305	0,86	S1

50Hz: IE3-96,0%(100%)-96,3%(75%)-96,1%(50%)
60Hz: IE3-96,2%(100%)

Resistance

Line Ambient: 24 °C

U_1 - V_1	0,01078	Ω
U_1 - W_1	0,01077	Ω
V_1 - W_1	0,01077	Ω

Insulation resistance at 50 °C

15000 MΩ 1000 V

Overload

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		399,9	D	50	120,2	2,12		1500	0,03	
Locked rotor test		68,1	D	50	349,2	13,39		0	0,32	
Thermal test (100% load)	1284,0	400,2	D	50	350,6	208,2	200,0	1488	0,86	96,1
Partial load points:										
~75% load	964,5	400,4	D	50	272,6	155,5	150,0	1491	0,82	96,5
~50% load	644,0	400,5	D	50	202,7	103,6	100,0	1494	0,74	96,5
~25% load	325,8	400,1	D	50	147,3	52,6	50,0	1497	0,52	95,1

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		66	1
Frame :		25	2
Bearing D-end :		43	2
Rotor:		87	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GF13169079C, on date 2013-08-07, 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 Date of test

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

Telephone +358 10 2211
Telefax +358 10 22 47372

Computer print-out valid without signature.

ABB, Motors and Generators

www abb.com/motors&generators