Test Report

Date of issue: 28.1.2012

Serial No.: 3GF10021467

Type: M3BP 315SMB 4 IMB3/IM1001
Product Code: 3GBP312220-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	132	1487	132	0,86	S1
Insul.cl.F	400	D	50	132	1487	233	0,86	S1
IP55	660	Y	50	132	1486	139	0,87	S1
Ambient temp. +50℃	380	D	50	132	1486	241	0,87	S1
	415	D	50	132	1488	227	0,85	S1
	440	D	60	150	1787	230	0,86	S1

Resistance
Line Ambient: 21,0 ºC

U_1 - V_1	0,01680	Ω
U_1 - W_1	0,01679	Ω
V_1 - W_1	0,01678	Ω

Insulation resistance at 60,0 ºC
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 :		61,7	1
Frame :		27,0	2
Bearing D-end :		46,3	2
Ambient Temperature :	25,0		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

Starting current (I_S / I_N) : 7,26
Locked rotor torque (T_l / T_N) : 2,48

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 20.4.2010

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

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