Test Report

Date of issue: 10.2.2012

Serial No.: 0909-010591682

Type: M3BP 280SMB 4 B3
Product Code: 3GBP282220-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	90	1483	92	0,86	S1
Insul.cl.F	400	D	50	90	1483	159	0,86	S1
IP55	660	Y	50	90	1481	96	0,87	S1
	380	D	50	90	1481	166	0,87	S1
	415	D	50	90	1485	155	0,85	S1
	440	D	60	105	1780	167	0,87	S1

Resistance
Line — Ambient: 21,0 °C
U_1 - V_1 0,03457 Ω
U_1 - W_1 0,03458 Ω
V_1 - W_1 0,03454 Ω

Insulation resistance at 58,5 °C
13000 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	51,2	1,82		1500	0,05	
Locked rotor test		74,0	D	50	159,1	7,08		0	0,35	
Thermal test (100% load)	579,6	400,0	D	50	161,1	94,8	90,0	1484	0,85	95,0
Partial load points:										
~75% load	435,3	400,0	D	50	125,0	71,1	67,5	1485	0,82	94,9
~50% load	291,3	400,1	D	50	91,8	47,5	45,0	1493	0,75	94,7
~25% load	143,5	400,2	D	50	65,0	24,5	22,5	1496	0,54	91,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		61,4	1
Frame :		26,3	2
Bearing D-end :		47,0	2
Ambient Temperature :	25,0		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

Starting current (I_S / I_N) : 7,18
Locked rotor torque (T_I / T_N) : 2,65

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 24.4.2009

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

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