Type Test Report

Date of issue: 24.8.2015

Serial No.:

Customer:

Customer ref.:

Type: M3BP 250SMC 2

Product Code: 3GBP251230-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	90,0	2971	88,7	0,89	S1
Insul.cl.F	400	D	50	90,0	2971	153,0	0,89	S1
IP55	415	D	50	90,0	2974	149,0	0,88	S1
	440	D	60	90,0	3572	139,0	0,89	S1
	460	D	60	90,0	3575	133,0	0,89	S1

Eff class IE3

50Hz : IE3 - 95,0%(100%) - 95,3%(75%) - 94,9%(50%)

60Hz : IE2 - 94,8%(100%)

Resistance

Line Ambient: 23,4 °C

U_1 - V_1	0,02776 Ω
U_1 - W_1	0,02754 Ω
V_1 - W_1	0,02774 Ω

Insulation resistance at 24,5 °C

R > 2000 Mohm 1000 V

Overload

Current	150 %	120s
Torque	160 %	15s
Speed	120 %	120s

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		401,8	D	50	37,6	1,45		3000	0,06	
Locked rotor test		69,5	D	50	161,7	7,22		0	0,37	
Thermal test (100% load)	289,4	400	D	50	151,6	94,10	90,00	2970	0,90	95,64
Partial load points:										
~75% load	217,1	400	D	50	116,7	70,62	67,72	2979	0,87	95,89
~50% load	145,1	400	D	50	83,3	47,45	45,38	2987	0,82	95,65
~25% load	73,5	400	D	50	54,5	24,64	23,06	2995	0,65	93,59

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		81,8	1
Frame :		60,1	2
Bearing D-end :		52,6	2
Ambient Temperature :	25		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GV1110816717001, on date 2012-01-19 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 Date of test

Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden

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