Type Test Report

Date of issue: 24.8.2015

Serial No.:

Customer:

Customer ref.:

Type: M3BP 250SMA 4
Product Code: 3GBP252210-BDG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	55,0	1480	57,3	0,85	S1
Insul.cl.F	400	D	50	55,0	1480	98,9	0,85	S1
IP55	415	D	50	55,0	1481	96,3	0,84	S1
	440	D	60	55,0	1781	89,7	0,85	S1
	460	D	60	55,0	1782	86,3	0,84	S1

Eff class IE2

50Hz : IE2 - 94,4%(100%) - 94,9%(75%) - 94,6%(50%)
60Hz : IE2 - 94,5%(100%)

Resistance
Line Ambient: 24,1 ºC

U_1 - V_1	0,06718	Ω
U_1 - W_1	0,06603	Ω
V_1 - W_1	0,06722	Ω

Insulation resistance at 25 ºC
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		400,7	D	50	35,9	1,25		1500	0,05	
Locked rotor test		7,1	D	50	93,3	4,21			0,3	
Thermal test (100% load)	354,9	400	D	50	100,0	58,45	55,00	1480	0,84	94,09
Partial load points:										
~75% load	266,9	400	D	50	78,6	44,02	41,54	1486	0,81	94,37
~50% load	178,6	400	D	50	59,5	26,69	27,88	1491	0,72	93,90
~25% load	91,0	400	D	50	44,1	15,67	14,26	1496	0,51	90,97

Temperature rise at rated load.

	[ºC]	[K]	Method
Stator winding :		69,1	1
Frame :		40,0	2
Bearing D-end :		35,5	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110696367001, on date 2011-04-27
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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