Type Test Report

Date of issue: 24.8.2015

Serial No.:

Customer:

Customer ref.:

Type: M3BP 225SMB 4
Product Code: 3GBP222220-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	45,0	1480	47,1	0,85	S1
Insul.cl.F	400	D	50	45,0	1480	81,3	0,85	S1
IP55	415	D	50	45,0	1483	80,1	0,83	S1
	440	D	60	45,0	1782	73,0	0,86	S1
	460	D	60	45,0	1784	70,5	0,85	S1

Eff class IE2

50Hz : IE2 - 93,9%(100%) - 94,3%(75%) - 93,9%(50%)
60Hz : IE2 - 94,0%(100%)

Resistance
Line Ambient: 23,9 ºC

U_1 - V_1	0,07927	Ω
U_1 - W_1	0,07918	Ω
V_1 - W_1	0,07922	Ω

Insulation resistance at 24 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		400,5	D	50	2,1	1,13		1500	0,05	
Locked rotor test		71,2	D	50	78,7	3,47			0,36	
Thermal test (100% load)	290,2	400	D	50	82,2	47,86	45,00	1481	0,84	94,03
Partial load points:										
~75% load	218,3	400	D	50	64,8	36,04	33,97	1486	0,80	94,24
~50% load	145,3	400	D	50	48,9	24,21	22,69	1491	0,71	93,72
~25% load	73,6	400	D	50	36,7	12,74	11,53	1496	0,50	90,50

Temperature rise at rated load.

	[ºC]	[K]	Method
Stator winding :		65,8	1
Frame :		42,3	2
Bearing D-end :		32,1	2
Ambient Temperature :	24		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1010549101003, on date 2010-10-01
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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