Type Test Report

Date of issue: 24.8.2015

Serial No.:

Customer:

Customer ref.:

Type: M3BP 180MLA 6
Product Code: 3GBP183410-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	15,0	977	18,3	0,76	S1
Insul.cl.F	400	D	50	15,0	977	31,5	0,76	S1
IP55	415	D	50	15,0	979	31,1	0,74	S1
	440	D	60	15,0	1178	28,0	0,77	S1
	460	D	60	15,0	1181	27,8	0,74	S1

Eff class IE2

50Hz : IE2 - 90,2%(100%) - 91,2%(75%) - 90,7%(50%)
60Hz : IE2 - 91,1%(100%)

Resistance
Line Ambient: 22,9 ºC

U_1 - V_1	0,40200	Ω
U_1 - W_1	0,40050	Ω
V_1 - W_1	0,40110	Ω

Insulation resistance at 23 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	D	50	14,6	0,6		1000	0,06	
Locked rotor test		92	D	50	29,9	1,55			0,31	
Thermal test (100% load)	146,4	400	D	50	30,9	16,60	15,00	979	0,77	90,50
Partial load points:										
~75% load	109,6	400	D	50	24,8	12,40	11,30	985	0,72	90,90
~50% load	72,3	400	D	50	19,7	8,30	7,50	991	0,61	90,30
~25% load	36,4	400	D	50	16,0	4,40	3,80	996	0,40	85,60

Temperature rise at rated load.

	[ºC]	[K]	Method
Stator winding :		49,6	1
Frame :		30,1	2
Bearing D-end :		23,2	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1210923141001, on date 2012-07-31
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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