Type Test Report

Date of issue: 25.11.2016

Serial No.:

Customer:

Customer ref.:

Type: M3BP 160MLD 4

Product Code: 3GBP162440-ADG

Rating:

	V		Hz	kW	r/min	A	cos j	Duty
3~Motor	690	Y	50	22,0	1466	23,7	0,86	S1
Insul.cl.F	400	D	50	22,0	1466	40,8	0,86	S1
IP55	415	D	50	22,0	1467	40,3	0,84	S1
	440	D	60	22,0	1766	36,7	0,85	S1
Eff class IE2	460	D	60	22,0	1770	35,4	0,84	S1

50Hz : IE2 - 91,6%(100%) - 92,4%(75%) - 92,5%(50%)

60Hz : IE2 - 92,4%(100%)

Resistance

Line — Ambient: 20,8 °C

U_1 - V_1 0,23720 W

U_1 - W_1 0,23630 W

V_1 - W_1 0,23700 W

Insulation resistance at 21,9 °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 j	h [%]
No load test		400	D	50	13,0	0,57		1500	0,06	
Locked rotor test		85	D	50	39,7	1,85		0	0,32	
Thermal test (100% load)	143,4	400	D	50	40,8	24,13	22,00	1466	0,85	91,19
Partial load points:										
~75% load	108,6	400	D	50	31,9	18,23	16,78	1475	0,82	92,06
~50% load	72,6	400	D	50	23,5	12,25	11,29	1484	0,75	92,18
~25% load	37,0	400	D	50	16,7	6,46	5,79	1492	0,56	89,56

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		71,7	1
Frame :		50,1	2
Bearing D-end :		43,2	2
Ambient Temperature :	22		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GV1110812205001, on date 2012-02-01 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

Telephone +46 (0)21 32 90 00

Telefax +46 (0)21 32 90 22

Computer print-out valid without signature.