Type Test Report

Date of issue: 4.11.2015

Serial No.:

Motor Type: M3AA 100 LD 4

Product Code: 3GAA102540-ADE

Customer ref.:

Rating:

	V		Hz	kW	r/min	A	η [%]	Duty
3~Motor	690	Y	50	3,00	1445	3,70	0,79	S1
Insul.cl.F	400	D	50	3,00	1445	6,30	0,79	S1
IP55	460	D	60	3,00	1750	5,30	0,80	S1

Eff class IE2

50Hz : IE2 - 85,7%(100%) - 86,1%(75%) - 85,1%(50%)
60Hz : IE2 - 88,2%(100%)

Resistance

Line — Ambient: 21,8 °C

U_1 - V_1	3,1800	Ω
U_1 - W_1	3,1810	Ω
V_1 - W_1	3,1790	Ω

Insulation resistance at R > 2000Mohm 1,0kV

Overload

Volts	130 %	60s
Amp	160 %	120s
rpm	120 %	120s

High-voltage test winding 2400V 60s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos ρ	η[%]
No load test		402	D	50	3,4	0,19		1500	0,08	
Locked rotor test		74	D	50	6,5	0,43			0,51	
Thermal test (100% load)	19,9	400	D	50	6,3	3,50	3,00	1441	0,80	85,70
Partial load points:										
~75% load	14,7	400	D	50	5,1	2,60	2,25	1458	0,73	86,50
~50%load	9,7	400	D	50	4,2	1,75	1,50	1473	0,60	85,50
~25%load	4,8	400	D	50	3,6	0,95	0,75	1486	0,38	78,80

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding+ :		48,8	1
Frame :	55,8		2
Bearing D-end :	50,7		2
Ambient Temperature :	21,9		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GE1360400245, on date 2014-02-25
which is identical in electrical design with the above.

Manufactured 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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