Type Test Report

Date of issue: 4.11.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 100 LC 4

Product Code: 3GAA102530-_DE

Rating:

	V		Hz	kW	r/min	A	η [%]	Duty
3~Motor	690	Y	50	2,20	1450	2,69	0,79	S1
Insul.cl.F	400	D	50	2,20	1450	4,60	0,79	S1
IP55	460	D	60	2,20	1760	4,20	0,75	S1

Eff class IE2

50Hz : IE2 - 86,4%(100%) - 86,2%(75%) - 84,1%(50%)

60Hz : IE2 - 87,5%(100%)

Resistance

Line Ambient: 21,0 °C

U_1 - V_1	3,82200	Ω
U_1 - W_1	3,82100	Ω
V_1 - W_1	3,82500	Ω

Insulation resistance at 22 °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 φ	η [%]
No load test		400	D	50	2,6	0,17		1500	0,09	
Locked rotor test		68	D	50	4,8	0,30		0	0,53	
Thermal test (100% load)	14,5	400	D	50	4,6	2,55	2,20	1453	0,80	86,40
Partial load points:										
~75% load	10,8	400	D	50	3,7	1,91	1,65	1465	0,73	86,20
~50% load	7,1	400	D	50	3,1	1,31	1,10	1477	0,60	84,10
~25% load	3,5	400	D	50	2,5	0,72	0,55	1488	0,41	76,50

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		36,8	3
Frame :		18	3
Bearing D-end :		25	3
Ambient Temperature :	25		3

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GE081610T0227, on date 2008-06-17 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 Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain

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