# Test Report

Date of issue: 4.6.2014

Serial No.: 3GF11094423

Type: M3JP 200MLA 8 IMB3/IM1001
Product Code: 3GJP204410-ADG
Protection type: Ex d IIB T4 Gb
Cert. No.: LCIE 10 ATEX 3061X / IECEx LCI 04.0011X

Rating:

| | V | | Hz | kW | r/min | A | cos φ | Duty |
|---|---|---|---|---|---|---|---|---|
| 3~Motor | 400 | D | 50 | 15 | 734 | 30,4 | 0,79 | S1 |
| Insul.cl.F | 415 | D | 50 | 15 | 735 | 30,1 | 0,77 | S1 |
| IP55 | 690 | Y | 50 | 15 | 734 | 17,7 | 0,79 | S1 |

400 V 50Hz : 89.9(100%) - 90.3(75%) - 89.6(50%)

Resistance
Line — Ambient: 11,5 °C
$U_1$ - $V_1$ 0,47350 Ω
$U_1$ - $W_1$ 0,47360 Ω
$V_1$ - $W_1$ 0,47360 Ω

Insulation resistance at 42,0 °C
5000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 2900 V 1 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 | 14,6 | 0,67 | | 750 | 0,07 | |
| Locked rotor test | | 88,5 | D | 50 | 30,4 | 1,86 | | 0 | 0,40 | |
| Thermal test (100% load) | 195,2 | 400,0 | D | 50 | 30,6 | 16,8 | 15,0 | 734 | 0,79 | 89,2 |
| Partial load points: | | | | | | | | | | |
| ~75% load | 146,4 | 400,2 | D | 50 | 24,6 | 12,5 | 11,3 | 739 | 0,74 | 89,7 |
| ~50% load | 97,2 | 400,1 | D | 50 | 19,6 | 8,45 | 7,50 | 743 | 0,62 | 88,8 |
| ~25% load | 48,2 | 400,2 | D | 50 | 15,8 | 4,50 | 3,75 | 747 | 0,41 | 83,4 |

Temperature rise at rated load.

| | [°C] | [K] | Method |
|---|---|---|---|
| Stator winding : | | 71,1 | 1 |
| Frame : | | 49,1 | 2 |
| Bearing D-end : | | 53,9 | 2 |
| Ambient Temperature : | 25,0 | | 2 |

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

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 3.2.2012

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

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