# Test Report

Date of issue: 11.6.2014

Serial No.: 3GF11061011

Type: M3GP 355LKA 6 IMV1/IM3011
Product Code: 3GGP353810-BDG
Protection type: Ex nA IIC T3 Gc
Cert. No.: LCIE 12 ATEX 1008X
IECEx LCI 07.0001X

Rating:

| | V | | Hz | kW | r/min | A | cos φ | Duty |
|---|---|---|---|---|---|---|---|---|
| 3~Motor | 400 | D | 50 | 355 | 992 | 645 | 0,83 | S1 |

Insul.cl.F
IP55
Ambient temp. +45°C

Resistance
Line — Ambient: 20,0 °C
$U_1$ - $V_1$ 0,00456 Ω
$U_1$ - $W_1$ 0,00457 Ω
$V_1$ - $W_1$ 0,00457 Ω

Insulation resistance at 47,5 °C
1000 MΩ 1000 V

Overload
Torque 160 % 15s

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 | | 400,1 | D | 50 | 265,5 | 5,60 | | 1000 | 0,03 | |
| Locked rotor test | | 67,5 | D | 50 | 645,3 | 22,6 | | 0 | 0,30 | |
| Thermal test (100% load) | 3418,0 | 400,6 | D | 50 | 656,2 | 370,0 | 355,0 | 993 | 0,81 | 96,0 |
| Partial load points: | | | | | | | | | | |
| ~75% load | 2558,0 | 400,7 | D | 50 | 520,5 | 277,0 | 266,3 | 995 | 0,77 | 96,1 |
| ~50% load | 1708,5 | 401,0 | D | 50 | 401,2 | 185,4 | 177,5 | 997 | 0,67 | 95,7 |
| ~25% load | 855,0 | 401,2 | D | 50 | 308,6 | 95,0 | 88,8 | 999 | 0,44 | 93,5 |

Temperature rise at rated load.

| | [°C] | [K] | Method |
|---|---|---|---|
| Stator winding : | | 57,8 | 1 |
| Frame : | | 34,4 | 2 |
| Bearing D-end : | | 44,4 | 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 23.2.2011

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

Telephone +358 10 2211
Telefax +358 10 22 47372

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