



| Test Report | | | | Date of issue: 16.3.2015 | | | | | |
|---|----------------|-----------|---------|----------------------------------|--|----------------|--------------------|-------|-------|
| Customer: | | | | Serial No.: | | | | | |
| Customer ref.: | | | | Order No.: | | | | | |
| | | | | Type: M3GP 200MLB 6 | | | | | |
| | | | | Product Code: 3GGP203420-ADL | | | | | |
| | | | | Protection type: Ex nA IIC T3 Gc | | | | | |
| | | | | Cert. No.: LCIE 13 ATEX 1034 X/ | | | | | |
| | | | | IECEX LCIE 13.0047 X | | | | | |
| Rating: | | | | | | | | | |
| | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3-Motor | 690 | Y 50 | 22,0 | 989 | 24,6 | 0,81 | S1 | | |
| Insul.cl.F | 400 | D 50 | 22,0 | 989 | 42,4 | 0,81 | S1 | | |
| IP55 | 415 | D 50 | 22,0 | 990 | 41,9 | 0,79 | S1 | | |
| | 440 | D 60 | 22,0 | 1190 | 38,1 | 0,82 | S1 | | |
| Eff class IE3 | 460 | D 60 | 22,0 | 1191 | 36,7 | 0,81 | S1 | | |
| 50Hz: IE3-92,2%(100%)-92,4%(75%)-91,4%(50%) | | | | | | | | | |
| 60Hz: IE3-93,0%(100%) | | | | | | | | | |
| Resistance | | | | Insulation resistance at 86 °C | | Overload | | | |
| Line | Ambient: 24 °C | | 2000 MΩ | | 1000 V | | Torque 160% 15s | | |
| U ₁ - V ₁ | 0,21280 Ω | | | | | | Speed 120% 120s | | |
| U ₁ - W ₁ | 0,21320 Ω | | | | | | Current 150% 15s | | |
| V ₁ - W ₁ | 0,21310 Ω | | | | | | | | |
| | | | | High-voltage test winding | | 1900 V 60 s | | | |
| Test | Torque [Nm] | Line U[V] | f[Hz] | Input I[A] | P1 [kW] | Output P2 [kW] | η[r/min] | cos φ | η [%] |
| No load test | | 400,3 D | 50 | 18,0 | 0,74 | | 998 | 0,06 | |
| Locked rotor test | | 78,7 D | 50 | 42,4 | 1,94 | | 0 | 0,33 | |
| Thermal test (100% load) | 212,6 | 400,5 D | 50 | 42,4 | 23,8 | 22,0 | 989 | 0,81 | 92,4 |
| Partial load points: | | | | | | | | | |
| ~75% load | 159,6 | 400,6 D | 50 | 34,0 | 17,8 | 16,5 | 993 | 0,76 | 92,6 |
| ~50% load | 106,2 | 400,7 D | 50 | 26,6 | 12,0 | 9,3 | 995 | 0,68 | 91,6 |
| ~25% load | 53,0 | 400,9 D | 50 | 26,6 | 12,0 | 11,0 | 995 | 0,65 | 91,7 |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | Measurement method | | |
| Stator winding : | | | | 51 | 1 | | 1 Resistance | | |
| Frame : | | | | 39 | 2 | | 2 Thermocouples | | |
| Bearing D-end : | | | | 35 | 2 | | 3 Thermometer | | |
| Rotor : | | | | 65 | 3 | | | | |
| Ambient Temperature : | | | | 25 | 2 | | | | |
| <p>These tests have been carried out on motor no. 3G1P141700185, on date 2014-07-09 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p> | | | | | | | | | |
| On behalf of customer | | | | | | | | | |
| On behalf of manufacturer | | | | | Date of test | | | | |
| Tested by ABB Oy, Motors and Generators, Vaasa, Finland | | | | | Telephone +358 10 2211 Telefax +358 10 22 47372 | | | | |

Computer print-out valid without signature.