



| Test Report | | | | Date of issue: 17.3.2015 | | | | | |
|---|----------------|-----------|-------|----------------------------------|---------|---|----------|--------------------|------|
| Customer: | | | | Serial No.: | | | | | |
| Customer ref.: | | | | Order No.: | | | | | |
| | | | | Type: M3JP 225SMB 4 | | | | | |
| | | | | Product Code: 3GJP222220-ADL | | | | | |
| | | | | Protection type: Ex d IIB T4 Gb | | | | | |
| | | | | Cert. No.: LCIE 10 ATEX 3057X | | | | | |
| | | | | IECEX LCI 04.0005X | | | | | |
| Rating: | | | | | | | | | |
| | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3-Motor | 690 | Y 50 | 45 | 1482 | 47,6 | 0,84 | S1 | | |
| Insul.cl.F | 400 | D 50 | 45 | 1482 | 82,3 | 0,84 | S1 | | |
| IP55 | 415 | D 50 | 45 | 1483 | 81 | 0,82 | S1 | | |
| | 440 | D 60 | 45 | 1782 | 73,4 | 0,85 | S1 | | |
| Eff class IE3 | 460 | D 60 | 45 | 1784 | 71,8 | 0,83 | S1 | | |
| 50Hz: IE3-94,2%(100%)-94,4%(75%)-94,0%(50%) | | | | | | | | | |
| 60Hz: IE3-95,0%(100%) | | | | | | | | | |
| Resistance | | | | Insulation resistance at 88 °C | | Overload | | | |
| Line | Ambient: 20 °C | | | 2000 MΩ 1000 V | | Torque 160% 15s | | | |
| U ₁ - V ₁ | 0,06820 Ω | | | | | Speed 120% 120s | | | |
| U ₁ - W ₁ | 0,06830 Ω | | | | | Current 150% 15s | | | |
| V ₁ - W ₁ | 0,06820 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 | | 400,7 D | 50 | 31,3 | 0,94 | | 1498 | 0,04 | |
| Locked rotor test | | 70,4 D | 50 | 81,0 | 3,46 | | 0 | 0,35 | |
| Thermal test (100% load) | 290,4 | 400,3 D | 50 | 82,3 | 47,8 | 45,0 | 1482 | 0,84 | 94,2 |
| Partial load points: | | | | | | | | | |
| ~75% load | 217,2 | 400,1 D | 50 | 64,8 | 35,7 | 33,8 | 1486 | 0,80 | 94,4 |
| ~50% load | 145,3 | 400,6 D | 50 | 49,2 | 23,9 | 22,5 | 1490 | 0,70 | 94,0 |
| ~25% load | 72,5 | 400,4 D | 50 | 37,0 | 12,3 | 11,3 | 1495 | 0,48 | 91,2 |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | |
| Stator winding : | | | | 63 | 1 | | | 1 Resistance | |
| Frame : | | | | 43 | 2 | | | 2 Thermocouples | |
| Bearing D-end : | | | | 43 | 2 | | | 3 Thermometer | |
| Rotor: | | | | 92 | 3 | | | | |
| Ambient Temperature : | | | | 25 | 2 | | | | |
| These tests have been carried out on motor no. 3G1P141700188, on date 2014-10-16 which is identical in design with the above. | | | | | | Starting current (I _S / I _N) : 7,99 | | | |
| | | | | | | Locked rotor torque (T _L / T _N) : 3,16 | | | |
| | | | | | | Pull-up torque (T _U / T _N) : 2,42 | | | |
| | | | | | | Breakdown torque (T _B / T _N) : 3,46 | | | |
| 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 ABB Oy, Motors and Generators, Vaasa, Finland | | | | | | Telephone +358 10 2211 | | | |
| | | | | | | Telefax +358 10 22 47372 | | | |

Computer print-out valid without signature.