



| Test Report | | | | Date of issue: 25.11.2015 | | | | | | |
|---|-------------|--|-------|--|---------|--|----------|--------------------|------------------|--|
| | | | | Type: M3JM 225SMC 2 | | | | | | |
| | | | | Product Code: 3GJM221230-_DG | | | | | | |
| | | | | Protection type: Ex d I Mb | | | | | | |
| | | | | 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 | 55 | 2965 | 55,4 | 0,88 | S1 | | |
| Insul.cl.F | | 400 | D 50 | 55 | 2965 | 95,8 | 0,88 | S1 | | |
| IP66 | | 415 | D 50 | 55 | 2968 | 93,1 | 0,88 | S1 | | |
| Eff class IE2 | | 50Hz : IE2 - 93.9%(100%) - 94.2%(75%) - 93.5%(50%) | | | | | | | | |
| Resistance | | | | Insulation resistance at 46 °C | | | Overload | | | |
| Line | | Ambient: 21 °C | | 329 MΩ | | | 1000 V | | Torque 160 % 15s | |
| U ₁ - V ₁ | | 0,05060 Ω | | | | | | | | |
| U ₁ - W ₁ | | 0,05068 Ω | | | | | | | | |
| V ₁ - W ₁ | | 0,05059 Ω | | | | | | | | |
| | | | | 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 | | 400,0 D | 50 | 25,3 | 1,30 | | 2998 | 0,07 | | |
| Locked rotor test | | 74,1 D | 50 | 96,0 | 4,18 | | 0 | 0,34 | | |
| Thermal test (100% load) | 177,2 | 400,1 D | 50 | 95,8 | 58,3 | 55,0 | 2963 | 0,88 | 94,4 | |
| Partial load points: | | | | | | | | | | |
| ~75% load | 132,8 | 400,0 D | 50 | 73,4 | 43,6 | 41,3 | 2974 | 0,86 | 94,6 | |
| ~50% load | 88,4 | 400,0 D | 50 | 52,7 | 29,3 | 27,5 | 2983 | 0,80 | 94,0 | |
| ~25% load | 44,2 | 400,1 D | 50 | 35,0 | 15,2 | 13,8 | 2991 | 0,63 | 90,6 | |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | | |
| Stator winding : | | | | 61 | 1 | | | 1 Resistance | | |
| Frame : | | | | 23 | 2 | | | 2 Thermocouples | | |
| Bearing D-end : | | | | 43 | 2 | | | 3 Thermometer | | |
| Ambient Temperature : | | | | 25 | 2 | | | | | |
| <p>These tests have been carried out on motor no. 3GF11094414, on date 2011-12-17, which is identical in electrical 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 | | | | | | | | | | |
| Tested by ABB Oy, Motors and Generators, Vaasa, Finland | | | | | | Telephone +358 10 2211 Telefax +358 10 22 47372 | | | | |

Computer print-out valid without signature.