



| Test Report | | | | Date of issue: 19.11.2015 | | | | | |
|---|-------------|--|--------|--|---------|----------------|----------|--------------------|-------|
| | | | | Type: M3JM 280SMB 6 B3 | | | | | |
| | | | | Product Code: 3GJM283220-_DK | | | | | |
| | | | | Protection type: Ex d I Mb | | | | | |
| | | | | Cert. No.: LCIE 11 ATEX 3089 X / IECEX LCI 04.0006X | | | | | |
| Rating: | | | | | | | | | |
| | | V | Hz | kW | r/min | A | cos φ | Duty | |
| 3-Motor | | 690 | Y 50 | 45 | 992 | 47 | 0,85 | S1 | |
| Insul.cl.F | | 400 | D 50 | 45 | 992 | 81 | 0,85 | S1 | |
| IP66 | | 660 | Y 50 | 45 | 990 | 49 | 0,86 | S1 | |
| | | 380 | D 50 | 45 | 990 | 85 | 0,86 | S1 | |
| | | 415 | D 50 | 45 | 991 | 79 | 0,84 | S1 | |
| | | 460 | D 60 | 45 | 1193 | 71 | 0,85 | S1 | |
| Eff class IE3 | | 50Hz : IE3 - 94.7%(100%)-95.1%(75%)-94.8%(50%) 60Hz : IE3 - 95.3%(100%) | | | | | | | |
| Resistance | | | | Insulation resistance at 38,0 °C | | | Overload | | |
| Line | | Ambient: 24,0 °C | | 3450 MΩ | | 1000 V | | Torque 160 % 15s | |
| U ₁ - V ₁ | | 0,06655 Ω | | | | | | | |
| U ₁ - W ₁ | | 0,06655 Ω | | | | | | | |
| V ₁ - W ₁ | | 0,06654 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] | n[r/min] | cos φ | η [%] |
| No load test | | 400,0 D | 50 | 27,5 | 0,77 | | 1000 | 0,04 | |
| Locked rotor test | | 77,1 D | 50 | 79,7 | 2,95 | | 0 | 0,28 | |
| Thermal test (100% load) | 433,7 | 400,0 D | 50 | 80,9 | 47,2 | 45,0 | 992 | 0,84 | 95,4 |
| Partial load points: | | | | | | | | | |
| ~75% load | 325,3 | 400,0 D | 50 | 63,0 | 35,3 | 33,8 | 995 | 0,81 | 95,7 |
| ~50% load | 216,9 | 400,0 D | 50 | 46,9 | 23,6 | 22,5 | 997 | 0,73 | 95,3 |
| ~25% load | 108,0 | 400,1 D | 50 | 33,9 | 12,1 | 11,3 | 1000 | 0,51 | 93,0 |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | |
| Stator winding : | | | | 34 | 1 | | | 1 Resistance | |
| Frame : | | | | 16 | 2 | | | 2 Thermocouples | |
| Bearing D-end : | | | | 25 | 2 | | | 3 Thermometer | |
| Ambient Temperature : | | 25,0 | | | 2 | | | | |
| <p>These tests have been carried out on motor no. 3GP11022881, on date 2011-08-20 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> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p> <p>Telephone +358 10 2211 Telefax +358 10 22 47372</p> | | | | | | | | | |

Computer print-out valid without signature.