



| Test Report | | | | Date of issue: 4.6.2014 | | | | | |
|--------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------|----------------------------------------------------|---------|----------------------------------------------------|--------------------|-------|-------|
| | | | | Serial No.: 3GF11094410 | | | | | |
| | | | | Type: M3JP 160MLC 8 IMB3/IM1001 | | | | | |
| | | | | Product Code: 3GJP164430-ADH | | | | | |
| | | | | Protection type: Ex d IIB T4 Gb | | | | | |
| | | | | Cert. No.: LCIE 11 ATEX 3087X / IECEx LCI 09.0008X | | | | | |
| Rating: | | | | | | | | | |
| | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3~Motor | 400 | D | 50 | 7,5 | 718 | 18 | 0,70 S1 | | |
| Insul.cl.F | 415 | D | 50 | 7,5 | 721 | 17,6 | 0,69 S1 | | |
| IP55 | 690 | Y | 50 | 7,5 | 718 | 10,5 | 0,70 S1 | | |
| 400 V 50Hz : 85.5(100%) - 86.3(75%) - 85.5(50%) | | | | | | | | | |
| Resistance | | Ambient: 23,0 °C | | Insulation resistance at 48,0 °C | | Overload | | | |
| Line | | | | 2400 MΩ | 1000 V | Torque 160 % 15s | | | |
| U ₁ - V ₁ | | | | 0,99700 Ω | | | | | |
| U ₁ - W ₁ | | | | 0,99710 Ω | | | | | |
| V ₁ - W ₁ | | | | 0,99730 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 | 11,2 | 0,53 | | 748 | 0,07 | |
| Locked rotor test | | 125,6 D | 50 | 17,9 | 1,81 | | 0 | 0,46 | |
| Thermal test (100% load) | 99,8 | 400,1 D | 50 | 19,3 | 9,41 | 7,50 | 700 | 0,71 | 79,7 |
| Partial load points: | | | | | | | | | |
| ~75% load | 74,8 | 400,0 D | 50 | 15,8 | 6,87 | 5,62 | 716 | 0,63 | 81,9 |
| ~50% load | 49,7 | 400,1 D | 50 | 13,0 | 4,58 | 3,75 | 729 | 0,51 | 81,9 |
| ~25% load | 24,9 | 400,0 D | 50 | 11,3 | 2,47 | 1,87 | 740 | 0,32 | 75,8 |
| Temperature rise at rated load. | | [°C] | | [K] | Method | | Measurement method | | |
| Stator winding : | | | | 88,4 | 1 | | 1 Resistance | | |
| Frame : | | | | 52,6 | 2 | | 2 Thermometer | | |
| Bearing D-end : | | | | 50,0 | 2 | | 3 Thermocouples | | |
| Rotor : | | | | 115,5 | 3 | | | | |
| Ambient Temperature : | | 25,0 | | | 2 | | | | |
| 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 | | 3.4.2012 | | | | | |
| Tested by ABB Oy, Motors and Generators, Vaasa, Finland | | | | | | Telephone +358 10 2211 Telefax +358 10 22 47372 | | | |

Computer print-out valid without signature.

ABB, Motors and Generators
www.abb.com/motors&generators