



| Test Report | | | | Date of issue: 25.11.2015 | | | | | | |
|--|-------------|--|-------|---|---------|--------------------------|----------|--------------------|-------|--|
| | | | | Type: M3JM 180MLB 2 | | | | | | |
| | | | | Product Code: 3GJM181420-_DH | | | | | | |
| | | | | Protection type: Ex d I Mb | | | | | | |
| | | | | Cert. No.: LCIE 11 ATEX 3088X / IECEX LCI 09.0009X | | | | | | |
| Rating: | | | | | | | | | | |
| | | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3~Motor | | 690 | Y 50 | 30 | 2943 | 30,2 | 0,90 | S1 | | |
| Insul.cl.F | | 400 | D 50 | 30 | 2943 | 52,2 | 0,90 | S1 | | |
| IP66 | | 415 | D 50 | 30 | 2947 | 50,5 | 0,90 | S1 | | |
| Eff class IE2 | | 50Hz : IE2 - 92.5%(100%) - 93.2%(75%) - 92.6%(50%) | | | | | | | | |
| Resistance | | | | Insulation resistance at 28 °C | | | | Overload | | |
| Line | | Ambient: 20 °C | | 18000 MΩ | | 1000 V | | Torque 160 % 15s | | |
| U ₁ - V ₁ | | 0,14380 Ω | | | | | | | | |
| U ₁ - W ₁ | | 0,14350 Ω | | | | | | | | |
| V ₁ - W ₁ | | 0,14340 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 | | 399,9 | D 50 | 13,4 | 0,89 | | | 0,10 | | |
| Locked rotor test | | 67,4 | D 50 | 52,0 | 2,49 | | | 0,41 | | |
| Thermal test (100% load) | | 400,1 | D 50 | 52,2 | 32,5 | 30,0 | 2948 | 0,90 | 92,2 | |
| Partial load points: | | | | | | | | | | |
| ~75% load | | 399,8 | D 50 | 39,8 | 24,2 | 22,5 | 2969 | 0,88 | 92,9 | |
| ~50% load | | 400,1 | D 50 | 28,4 | 16,3 | 15,0 | 2983 | 0,83 | 92,3 | |
| ~25% load | | 400,1 | D 50 | 18,6 | 8,48 | 7,50 | 2994 | 0,66 | 88,4 | |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | | |
| Stator winding : | | | | 57 | 1 | | | 1 Resistance | | |
| Frame : | | | | 21 | 2 | | | 2 Thermocouples | | |
| Bearing D-end : | | | | 28 | 2 | | | 3 Thermometer | | |
| Rotor: | | | | 74 | 3 | | | | | |
| Ambient Temperature : | | | | 25 | 2 | | | | | |
| <p>These tests have been carried out on motor no. 3GF11094419, on date 2012-01-17, 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> <p>On behalf of customer</p> <p>On behalf of manufacturer</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p> | | | | | | | | | | |
| | | | | | | Telephone +358 10 2211 | | | | |
| | | | | | | Telefax +358 10 22 47372 | | | | |

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