



| Test Report | | | | Date of issue: 20.11.2015 | | | | | | |
|---|-------------|--|-------|---|---------|----------------|----------|--------------------|-------|--|
| | | | | Type: M3JM 355SMA 6 | | | | | | |
| | | | | Product Code: 3GJM353210-DG | | | | | | |
| | | | | Protection type: Ex d I Mb | | | | | | |
| | | | | Cert. No.: LCIE 10 ATEX 3089X / IECEX LCI 04.0008X | | | | | | |
| Rating: | | | | | | | | | | |
| | | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3~Motor | | 690 | Y 50 | 150 | 993 | 158 | 0,83 | S1 | | |
| Insul.cl.F | | 400 | D 50 | 150 | 993 | 275 | 0,83 | S1 | | |
| IP66 | | 415 | D 50 | 150 | 993 | 269 | 0,82 | S1 | | |
| Eff class IE3 | | 50Hz : IE3 - 95.5%(100%) - 95.6%(75%) - 95.1%(50%) | | | | | | | | |
| Resistance | | | | Insulation resistance at 32 °C | | | | | | |
| Line | | Ambient: 20 °C | | 14000 MΩ | | 1000 V | | | | |
| U ₁ - V ₁ | | 0,01260 Ω | | | | | | | | |
| U ₁ - W ₁ | | 0,01261 Ω | | | | | | | | |
| V ₁ - W ₁ | | 0,01260 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 | | 400,0 D | 50 | 95,5 | 2,85 | | 1000 | 0,04 | | |
| Locked rotor test | | 78,3 D | 50 | 273,0 | 9,84 | | 0 | 0,27 | | |
| Thermal test (100% load) | 1443 | 401,2 D | 50 | 274,7 | 157,0 | 150,0 | 993 | 0,83 | 95,5 | |
| Partial load points: | | | | | | | | | | |
| ~75% load | 1083 | 401,6 D | 50 | 214,4 | 117,7 | 112,5 | 995 | 0,79 | 95,6 | |
| ~50% load | 722,9 | 401,9 D | 50 | 160,6 | 78,9 | 75,0 | 997 | 0,71 | 95,1 | |
| ~25% load | 367,4 | 402,1 D | 50 | 117,3 | 40,6 | 37,5 | 999 | 0,50 | 92,3 | |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | | |
| | | Stator winding : | | 52 | 1 | | | 1 Resistance | | |
| | | Frame : | | 29 | 2 | | | 2 Thermocouples | | |
| | | Bearing D-end : | | 34 | 2 | | | 3 Thermometer | | |
| | | Ambient Temperature : | | 25 | 2 | | | | | |
| <p>These tests have been carried out on motor no. 3GP11019357, on date 2011-10-28, 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> <p>Telephone +358 10 2211 Telefax +358 10 22 47372</p> | | | | | | | | | | |

Computer print-out valid without signature.