



| Test Report | | | | Date of issue: 17.3.2015 | | | | | |
|---|----------------|-----------|-------|----------------------------------|---------|------------------|------------------|--------------------|------|
| Customer: | | | | Serial No.: | | | | | |
| Customer ref.: | | | | Type: M3JP 225SMA 2 | | | | | |
| | | | | Product Code: 3GJP221210-ADL | | | | | |
| | | | | Protection type: Ex d IIB T4 Gb | | | | | |
| | | | | 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 | 45 | 2968 | 46 | 0,87 | S1 | | |
| Insul.cl.F | 400 | D 50 | 45 | 2968 | 79,6 | 0,87 | S1 | | |
| IP55 | 415 | D 50 | 45 | 2970 | 78,3 | 0,85 | S1 | | |
| | 440 | D 60 | 45 | 3568 | 71,8 | 0,88 | S1 | | |
| Eff class IE3 | 460 | D 60 | 45 | 3570 | 67,4 | 0,89 | S1 | | |
| 50Hz: IE3-94,0%(100%)-94,0%(75%)-93,0%(50%) | | | | | | | | | |
| 60Hz: IE3-93,6%(100%) | | | | | | | | | |
| Resistance | | | | Insulation resistance at 39 °C | | Overload | | | |
| Line | Ambient: 23 °C | | | 2000 MΩ 1000 V | | Torque 160% 15s | | | |
| U ₁ - V ₁ | 0,06568 Ω | | | | | Speed 120% 120s | | | |
| U ₁ - W ₁ | 0,06572 Ω | | | | | Current 150% 15s | | | |
| V ₁ - W ₁ | 0,06567 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 | 21,5 | 1,25 | | 2998 | 0,08 | |
| Locked rotor test | | 71,4 D | 50 | 78,5 | 3,56 | | 0 | 0,37 | |
| Thermal test (100% load) | 144,8 | 400,2 D | 50 | 79,6 | 47,9 | 45,0 | 2968 | 0,87 | 94,1 |
| Partial load points: | | | | | | | | | |
| ~75% load | 108,6 | 400,0 D | 50 | 61,1 | 35,9 | 33,8 | 2977 | 0,85 | 94,1 |
| ~50% load | 72,2 | 400,0 D | 50 | 44,1 | 24,1 | 22,5 | 2985 | 0,79 | 93,2 |
| ~25% load | 36,3 | 400,0 D | 50 | 29,6 | 12,6 | 11,3 | 2992 | 0,62 | 89,2 |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | |
| Stator winding : | | | | 57 | 1 | | | 1 Resistance | |
| Frame : | | | | 35 | 2 | | | 2 Thermocouples | |
| Bearing D-end : | | | | 34 | 2 | | | 3 Thermometer | |
| Rotor: | | | | 54 | 3 | | | | |
| Ambient Temperature : | | | | 25 | 2 | | | | |
| <p>These tests have been carried out on motor no. 3G1P141700186, on date 2014-10-03 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 Date of test</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p> | | | | | | | | | |
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Computer print-out valid without signature.