



| Test Report | | | | Date of issue: 27.5.2015 | | | | | |
|---|-------------|-----------|-------|----------------------------------|---------|------------------------------|--------------------|-------|-------|
| Customer: | | | | Serial No.: | | | | | |
| Customer ref.: | | | | Order No.: | | | | | |
| | | | | Type: M3KP 180MLA 6 | | | | | |
| | | | | Product Code: 3GKP183410-ADK | | | | | |
| | | | | Protection type: Ex de IIB T4 Gb | | | | | |
| | | | | 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 | 15,0 | 981 | 17,6 | 0,77 | S1 | | |
| Insul.cl.F | 400 | D 50 | 15,0 | 981 | 30,4 | 0,77 | S1 | | |
| IP55 | 660 | Y 50 | 15,0 | 980 | 18,1 | 0,79 | S1 | | |
| | 380 | D 50 | 15,0 | 980 | 31,3 | 0,79 | S1 | | |
| | 415 | D 50 | 15,0 | 982 | 30,1 | 0,75 | S1 | | |
| | 460 | D 60 | 15,0 | 1183 | 27,1 | 0,75 | S1 | | |
| Eff class IE3 | | | | | | | | | |
| 50Hz : IE3-92,2(100%)-92,4(75%)-91,5(50%) | | | | | | | | | |
| 60Hz : IE3-92,3(100%) | | | | | | | | | |
| Resistance | | | | Insulation resistance at 22 °C | | Overload | | | |
| Line | | | | R > 2000 Mohm 1000 V | | Current 150 % 120s | | | |
| U ₁ - V ₁ | | | | Ambient: 22,2 °C | | Torque 160 % 15s | | | |
| U ₁ - W ₁ | | | | 0,38170 Ω | | Speed 120 % 120s | | | |
| V ₁ - W ₁ | | | | 0,38060 Ω | | | | | |
| | | | | 0,38160 Ω | | | | | |
| | | | | High-voltage test winding 2400 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 | | 399 D | 50 | 12,5 | 0,37 | | 1000 | 0,04 | |
| Locked rotor test | | 98 D | 50 | 29,5 | 1,38 | | | 0,28 | |
| Thermal test (100% load) | 146,5 | 400 D | 50 | 29,8 | 16,34 | 15,00 | 978 | 0,79 | 91,78 |
| Partial load points: | | | | | | | | | |
| ~75% load | 111,1 | 400 D | 50 | 23,9 | 12,37 | 11,44 | 984 | 0,75 | 92,52 |
| ~50% load | 74,0 | 400 D | 50 | 18,5 | 8,29 | 7,67 | 989 | 0,65 | 92,56 |
| ~25% load | 38,2 | 400 D | 50 | 14,5 | 4,42 | 3,98 | 995 | 0,44 | 89,98 |
| Temperature rise at rated load. | | | | °C | [K] | Method | Measurement method | | |
| Stator winding : | | | | 40,4 | 1 | 1 Resistance | | | |
| Frame : | | | | 27,3 | 2 | 2 Thermometer | | | |
| Bearing D-end : | | | | 23,1 | 2 | 3 Thermocouples | | | |
| Ambient Temperature : | | | | 22 | 2 | | | | |
| <p>These tests have been carried out on motor no. 3GV1210923142001, on date 2011-05-02 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> | | | | | | | | | |
| On behalf of customer | | | | | | | | | |
| On behalf of manufacturer | | | | Date of test | | | | | |
| Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden | | | | | | Telephone +46 (0)21 32 90 00 | | | |
| | | | | | | Telefax +46 (0)21 32 90 22 | | | |

Computer print-out valid without signature.