



| Test Report | | | | Date of issue: 27.5.2015 | | | | | | | |
|---|-------------|--|-------|--|---------|------------------------------|--------------------------------|----------------------------|--------------------|--|--|
| Customer: | | | | Serial No.: | | | | | | | |
| Customer ref.: | | | | Order No.: | | | | | | | |
| | | | | Type: M3GP 200MLA 4 | | | | | | | |
| | | | | Product Code: 3GGP202410-ADK | | | | | | | |
| | | | | Protection type: Ex tc IIIB/C T125C Dc | | | | | | | |
| | | | | Cert. No.: LCIE 13 ATEX 1034 X/ IECEx LCIE 13.0047 X | | | | | | | |
| Rating: | | | | | | | | | | | |
| | | V | Hz | kW | r/min | A | cos φ | Duty | | | |
| 3-Motor | | 690 | Y 50 | 30,0 | 1484 | 31,7 | 0,84 | S1 | | | |
| Insul.cl.F | | 400 | D 50 | 30,0 | 1484 | 54,6 | 0,84 | S1 | | | |
| | | 660 | Y 50 | 30,0 | 1481 | 32,8 | 0,85 | S1 | | | |
| | | 380 | D 50 | 30,0 | 1481 | 56,9 | 0,85 | S1 | | | |
| | | 415 | D 50 | 30,0 | 1485 | 53,8 | 0,82 | S1 | | | |
| | | 460 | D 60 | 30,0 | 1786 | 47,9 | 0,83 | S1 | | | |
| Eff class IE3 | | 50Hz : IE3-94,4(100%)-94,8(75%)-94,6(50%) 60Hz : IE3-94,7(100%) | | | | | | | | | |
| Resistance Line | | | | Ambient: 23,7 °C | | | Insulation resistance at 24 °C | | Overload | | |
| U ₁ - V ₁ | | | | 0,1239 Ω | | | R > 2000 Mohm 1000 V | | Current 150 % 120s | | |
| U ₁ - W ₁ | | | | 0,1239 Ω | | | | | Torque 160 % 15s | | |
| V ₁ - W ₁ | | | | 0,1239 Ω | | | | | Speed 120 % 120s | | |
| 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 | | 401 D | 50 | 22,3 | 0,53 | | 1500 | 0,03 | | | |
| Locked rotor test | | 70,1 D | 50 | 49,9 | 1,94 | | 0 | 0,32 | | | |
| Thermal test (100% load) | 193,2 | 400 D | 50 | 55,7 | 31,68 | 30,00 | 1483 | 0,82 | 94,70 | | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | 147,7 | 400 D | 50 | 45,0 | 24,22 | 23,02 | 1488 | 0,78 | 95,07 | | |
| ~50% load | 99,5 | 400 D | 50 | 34,8 | 16,37 | 15,54 | 1492 | 0,68 | 94,95 | | |
| ~25% load | 52,1 | 400 D | 50 | 26,5 | 8,77 | 8,16 | 1496 | 0,48 | 93,07 | | |
| Temperature rise at rated load. | | | | °C | [K] | Method | | Measurement method | | | |
| Stator winding : | | | | 52,4 | 1 | | | 1 Resistance | | | |
| Frame : | | | | 33,9 | 2 | | | 2 Thermometer | | | |
| Bearing D-end : | | | | 33,0 | 2 | | | 3 Thermocouples | | | |
| Ambient Temperature : | | | | 24 | 2 | | | | | | |
| <p>These tests have been carried out on motor no. 3GV1110782967001, on date 2011-09-22 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.