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|--|--|-----------|-------|---|--|--|----------|--------------------|-------|
| Type Test Report | | | | Date of issue: 1.9.2015 | | | | | |
| Customer: | | | | Serial No.: | | | | | |
| Customer ref.: | | | | Type: M3AA 200MLA 4 Product Code: 3GAA202410-ADG | | | | | |
| Rating: | | | | | | | | | |
| | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3-Motor | 690 | Y 50 | 30,0 | 1480 | 32,1 | 0,84 | S1 | | |
| Insul.cl.F | 400 | D 50 | 30,0 | 1480 | 55,3 | 0,84 | S1 | | |
| IP55 | 415 | D 50 | 30,0 | 1482 | 53,8 | 0,83 | S1 | | |
| | 440 | D 60 | 30,0 | 1781 | 50,1 | 0,84 | S1 | | |
| | 460 | D 60 | 30,0 | 1783 | 48,3 | 0,83 | S1 | | |
| Eff class IE2 | 50Hz : IE2 - 93,2(100%) - 94,0(75%) - 93,7(50%) 60Hz : IE2 - 93,5(100%) | | | | | | | | |
| Resistance | | | | Insulation resistance at 23 °C | | Overload | | | |
| Line | Ambient: 23,4 °C | | | R > 2000 Mohm 1000 V | | Current 150 % 120s Torque 160 % 15s Speed 120 % 120s | | | |
| U ₁ - V ₁ | 0,15660 Ω | | | | | | | | |
| U ₁ - W ₁ | 0,15500 Ω | | | | | | | | |
| V ₁ - W ₁ | 0,15500 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 | | 401 D | 50 | 19,6 | 0,66 | | 1500 | 0,05 | |
| Locked rotor test | | 73,1 D | 50 | 48,5 | 2,09 | | 0 | 0,17 | |
| Thermal test (100% load) | 193,4 | 400 D | 50 | 55,8 | 32,23 | 30,00 | 1481 | 0,83 | 93,09 |
| Partial load points: | | | | | | | | | |
| ~75% load | 138,2 | 400 D | 50 | 42,0 | 22,96 | 21,52 | 1487 | 0,79 | 93,72 |
| ~50% load | 94,9 | 400 D | 50 | 32,5 | 15,86 | 14,82 | 1491 | 0,70 | 93,48 |
| ~25% load | 52,3 | 400 D | 50 | 24,6 | 8,97 | 8,19 | 1496 | 0,53 | 91,30 |
| Temperature rise at rated load. | | | | °C | [K] | Method | | Measurement method | |
| Stator winding : | | | | 59,4 | | 1 | | 1 Resistance | |
| Frame : | | | | 20,7 | | 2 | | 2 Thermometer | |
| Bearing D-end : | | | | 22,6 | | 2 | | 3 Thermocouples | |
| Ambient Temperature : | | | | 23 | | 2 | | | |
| <p>These tests have been carried out on motor no. 09 399084 10001, on date 2009-02-16 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.