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|--|--|-----------|-------|---|--|--|----------|--------------------|-------|
| Type Test Report | | | | Date of issue: 1.9.2015 | | | | | |
| Customer: | | | | Serial No.: | | | | | |
| Customer ref.: | | | | Type: M3AA 250SMC 4 Product Code: 3GAA252230-ADG | | | | | |
| Rating: | | | | | | | | | |
| | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3-Motor | 690 | Y 50 | 90,0 | 1478 | 94,5 | 0,84 | S1 | | |
| Insul.cl.F | 400 | D 50 | 90,0 | 1478 | 163,0 | 0,84 | S1 | | |
| IP55 | 415 | D 50 | 90,0 | 1480 | 163,0 | 0,81 | S1 | | |
| | 440 | D 60 | 90,0 | 1780 | 144,0 | 0,86 | S1 | | |
| | 460 | D 60 | 90,0 | 1776 | 141,0 | 0,84 | S1 | | |
| Eff class IE2 | 50Hz : IE2 - 94,6(100%) - 95,3(75%) - 95,0(50%) 60Hz : IE2 - 95,0(100%) | | | | | | | | |
| Resistance | | | | Insulation resistance at 23 °C | | Overload | | | |
| Line Ambient: 21,8 °C | | | | R > 2000 Mohm 1000 V | | Current 150 % 120s Torque 160 % 15s Speed 120 % 120s | | | |
| U ₁ - V ₁ 0,03242 Ω | | | | | | | | | |
| U ₁ - W ₁ 0,03243 Ω | | | | | | | | | |
| V ₁ - W ₁ 0,03242 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 | | 400,3 D | 50 | 63,7 | 1,69 | | 1500 | 0,04 | |
| Locked rotor test | | 69,3 D | 50 | 152,5 | 6,92 | | 0 | 0,38 | |
| Thermal test (100% load) | 581,5 | 400 D | 50 | 164,4 | 95,13 | 90,00 | 1478 | 0,84 | 94,60 |
| Partial load points: | | | | | | | | | |
| ~75% load | 402,2 | 400 D | 50 | 122,5 | 65,87 | 62,58 | 1486 | 0,78 | 95,00 |
| ~50% load | 336,0 | 400 D | 50 | 108,5 | 55,17 | 52,36 | 1488 | 0,73 | 94,92 |
| ~25% load | 206,5 | 400 D | 50 | 84,9 | 44,32 | 32,29 | 1493 | 0,58 | 93,85 |
| Temperature rise at rated load. | | | | °C | [K] | Method | | Measurement method | |
| Stator winding : | | | | 87,4 | 1 | | | 1 Resistance | |
| Frame : | | | | 37,0 | 2 | | | 2 Thermometer | |
| Bearing D-end : | | | | 60,2 | 2 | | | 3 Thermocouples | |
| Ambient Temperature : | | | | 23 | 2 | | | | |
| <p>These tests have been carried out on motor no. 09 517657 10001, on date 2009-03-12 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.