



| Type Test Report | | | | | Date of issue: 2011.12.28 | | | | | | |
|---|-------------|-----------|--------------|------------|---|----------------|----------|-----------|--------------------|------------------------------|------|
| Customer: | | | | | Serial No.: 3GE110111T5504 | | | | | | |
| | | | | | Type: M3AA 112MB 4 HO | | | | | Product Code: 3GAA112102-_SE | |
| Customer ref.: | | | | | | | | | | | |
| Rating: | | | | | V | Hz | kW | r/min | A | cos φ | Duty |
| 3~Motor | | | | | 230 | D 50 | 5,5 | 1425 | 21,40 | 0,75 | S1 |
| Insul.cl.F | | | | | 400 | Y 50 | 5,5 | 1425 | 12,40 | 0,75 | S1 |
| IP55 | | | | | 460 | Y 60 | 5,5 | 1735 | 10,40 | 0,75 | S1 |
| Eff class IE1 | | | | | 50Hz : IE1 - 85,1(100%) - 86,9(75%) - 86,3(50%) | | | | | | |
| | | | | | 60Hz : IE1 - 88,1(100%) | | | | | | |
| Resistance | | | | | Insulation resistance at 23,9 °C | | | | | Overload | |
| Line | | | | | R > 2000 Mohm 1000 V | | | | | Current 150 % 120s | |
| U ₁ - V ₁ | | | | | Ambient: 16,2 °C | | | | | Torque 160 % 15s | |
| U ₁ - W ₁ | | | | | 1,73200 Ω | | | | | Speed 120 % 120s | |
| V ₁ - W ₁ | | | | | 1,72700 Ω | | | | | | |
| | | | | | 1,72900 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 Y | 50 | 7,2 | 0,40 | | 1500 | 0,08 | | | |
| Locked rotor test | | 85,6 Y | 50 | 11,6 | 1,02 | | 0 | 0,59 | | | |
| Thermal test (100% load) | 36,9 | 400 Y | 50 | 11,7 | 6,57 | 5,50 | 1424 | 0,81 | 83,70 | | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | 27,3 | 400 Y | 50 | 9,6 | 4,88 | 4,13 | 1445 | 0,73 | 84,70 | | |
| ~50% load | 17,9 | 400 Y | 50 | 8,0 | 3,29 | 2,75 | 1465 | 0,59 | 83,70 | | |
| ~25% load | 8,9 | 400 Y | 50 | 7,0 | 1,81 | 1,38 | 1482 | 0,37 | 76,30 | | |
| Temperature rise at rated load. | | | | | °C | K | Method | | Measurement method | | |
| Stator winding : | | | | | 84,5 | 3 | | | 1 Resistance | | |
| Frame : | | | | | 41,3 | 3 | | | 2 Thermometer | | |
| Bearing D-end : | | | | | 59,4 | 3 | | | 3 Thermocouples | | |
| Ambient Temperature : | | | | | 25 | 3 | | | | | |
| Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. | | | | | | | | | | | |
| PLL determined from residual loss. | | | | | | | | | | | |
| On behalf of customer | | | | | | | | | | | |
| On behalf of manufacturer | | | Date of test | | | 10.1.2011 | | | | | |
| Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain | | | | | | | | Telephone | | +34 93 728 85 00 | |
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