



| Type Test Report | | | | | Date of issue: 2012.05.11 | | | | | | |
|---|-------------|-----------|--------------|------------|----------------------------------|----------------|----------|-----------|--------------------|------------------------------|------|
| Customer: | | | | | Serial No.: 3GE121510T0001 | | | | | | |
| | | | | | Type: M3AA 112 MB 8 HO | | | | | Product Code: 3GAA114102-_SE | |
| Customer ref.: | | | | | | | | | | | |
| Rating: | | | | | V | Hz | kW | r/min | A | cos φ | Duty |
| 3~Motor | | | | | 230 | D 50 | 2,00 | 690 | 10,00 | 0,67 | S1 |
| Insul.cl.F | | | | | 400 | Y 50 | 2,00 | 690 | 5,80 | 0,67 | S1 |
| IP55 | | | | | 460 | Y 60 | 2,00 | 850 | 5,00 | 0,63 | S1 |
| Resistance | | | | | Insulation resistance at 25 °C | | | | | Overload | |
| Line Ambient: 20,5 °C | | | | | R > 2000 Mohm 1000 V | | | | | Current 150 % 120s | |
| U ₁ - V ₁ 6,28000 Ω | | | | | | | | | | Torque 160 % 15s | |
| U ₁ - W ₁ 6,28000 Ω | | | | | | | | | | Speed 120 % 120s | |
| V ₁ - W ₁ 6,29000 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 | 4,1 | 0,32 | | 750 | 0,11 | | | |
| Locked rotor test | | 133,3 Y | 50 | 5,8 | 0,86 | | 0 | 0,64 | | | |
| Thermal test (100% load) | 28,0 | 400 Y | 50 | 5,6 | 2,74 | 2,00 | 683 | 0,70 | 73,00 | | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | 20,4 | 400 Y | 50 | 4,7 | 2,02 | 1,50 | 703 | 0,61 | 74,30 | | |
| ~50% load | 13,2 | 400 Y | 50 | 4,2 | 1,39 | 1,00 | 721 | 0,47 | 71,70 | | |
| ~25% load | 6,5 | 400 Y | 50 | 3,9 | 0,83 | 0,50 | 736 | 0,30 | 59,90 | | |
| Temperature rise at rated load. | | | | | °C | [K] | Method | | Measurement method | | |
| Stator winding : | | | | | 88,0 | 3 | | | 1 Resistance | | |
| Frame : | | | | | 57,6 | 3 | | | 2 Thermometer | | |
| Bearing D-end : | | | | | 59,7 | 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 | | | 10.5.2012 | | | | | |
| 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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