



| Type Test Report | | | | | Date of issue: 2012.02.06 | | | | | | |
|---|-------------|-----------|--------------|------------|---|----------------|----------|-----------|--------------------|-----------------------------|------|
| Customer: | | | | | Serial No.: 3GE120413P0338 | | | | | | |
| | | | | | Type: M3AA 132 SB 2 | | | | | Product Code: 3GAA131442-GE | |
| Customer ref.: | | | | | | | | | | | |
| Rating: | | | | | V | Hz | kW | r/min | A | cos φ | Duty |
| 3~Motor | | | | | 415 | Y 50 | 5,50 | 2920 | 10,3 | 0,84 | S1 |
| Insul.cl.F | | | | | | | | | | | |
| IP55 | | | | | | | | | | | |
| Eff class IE2 | | | | | 50Hz : IE2 - 88(100%) - 87,8(75%) - 86(50%) | | | | | | |
| Resistance | | | | | Insulation resistance at 25 °C | | | | | Overload | |
| Line | | | | | R > 2000 Mohm 1000 V | | | | | Current 150 % 120s | |
| U ₁ - V ₁ | | | | | Ambient: 16,9 °C | | | | | Torque 160 % 15s | |
| U ₁ - W ₁ | | | | | 1,22800 Ω | | | | | Speed 120 % 120s | |
| V ₁ - W ₁ | | | | | 1,23100 Ω | | | | | | |
| | | | | | 1,23300 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 | | 415 Y | 50 | 3,7 | 0,33 | | 3000 | 0,12 | | | |
| Locked rotor test | | 64,3 Y | 50 | 10,2 | 0,49 | | 0 | 0,43 | | | |
| Thermal test (100% load) | 18,0 | 415 Y | 50 | 10,3 | 6,25 | 5,50 | 2921 | 0,84 | 88,00 | | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | 13,4 | 415 Y | 50 | 8,2 | 4,70 | 4,13 | 2941 | 0,79 | 87,80 | | |
| ~50% load | 8,9 | 415 Y | 50 | 6,3 | 3,20 | 2,75 | 2961 | 0,70 | 86,00 | | |
| ~25% load | 4,4 | 415 Y | 50 | 4,8 | 1,75 | 1,38 | 2980 | 0,50 | 78,70 | | |
| Temperature rise at rated load. | | | | | °C | K | Method | | Measurement method | | |
| Stator winding : | | | | | 40,2 | 3 | | | 1 Resistance | | |
| Frame : | | | | | 10,8 | 3 | | | 2 Thermometer | | |
| Bearing D-end : | | | | | 24,9 | 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 | | | 1.2.2012 | | | | | |
| 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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