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|---|-------------|------------------|--------------|---|---------|----------------|----------|--------------------|-------|--------------------|
| Test Report | | | | Date of issue: 4.6.2014 | | | | | | |
| | | | | Serial No.: 75031403008001B | | | | | | |
| | | | | Type: M3JP 315MLA 8 IMB3/IM1001 Product Code: 3GJP314410-ADG Protection type: Ex d IIB T4 Gb Cert. No.: LCIE 11 ATEX 3090X / IECEx LCI 04.0007X | | | | | | |
| Rating: | | | | | | | | | | |
| | | V | Hz | kW | r/min | A | cos φ | Duty | | |
| 3~Motor | | 400 | D | 50 | 110,0 | 740 | 203 | 0,83 | S1 | |
| Insul.cl.F | | 690 | Y | 50 | 110,0 | 740 | 118 | 0,83 | S1 | |
| IP55 | | 415 | D | 50 | 110,0 | 741 | 200 | 0,81 | S1 | |
| 400 V 50Hz: 94.0(100%) - 94,3(75%) - 94.0(50%) | | | | | | | | | | |
| Resistance | | | | Insulation resistance at 25 °C | | | | Overload | | |
| Line | | Ambient: 24,7 °C | | R > 2000 Mohm | | 1000 V | | Voltage 130 % 180s | | |
| U ₁ - V ₁ | | 0,02923 Ω | | | | | | Torque 160 % 15s | | |
| U ₁ - W ₁ | | 0,02925 Ω | | | | | | Speed 120 % 120s | | |
| V ₁ - W ₁ | | 0,02927 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 | | 400,6 D | 50 | 77,5 | 2 | | 1500 | 0,04 | | |
| Locked rotor test | | 93,7 D | 50 | 202,5 | 8,68 | | 0 | 0,26 | | |
| Thermal test (100% load) | 1422,8 | 400 D | 50 | 210,7 | 117,40 | 110,00 | 738 | 0,80 | 93,70 | |
| Partial load points: | | | | | | | | | | |
| ~75% load | 1064,2 | 400 D | 50 | 164,8 | 87,75 | 82,50 | 740 | 0,77 | 94,00 | |
| ~50% load | 706,3 | 400 D | 50 | 124,3 | 58,47 | 55,00 | 744 | 0,68 | 94,10 | |
| ~25% load | 351,8 | 400 D | 50 | 92,3 | 29,93 | 27,50 | 747 | 0,47 | 91,90 | |
| Temperature rise at rated load. | | | | [°C] | | [K] | | Method | | Measurement method |
| Stator winding : | | | | 78,9 | | 1 | | | | 1 Resistance |
| Frame : | | | | 41,6 | | 2 | | | | 2 Thermometer |
| Bearing D-end : | | | | 53,9 | | 2 | | | | 3 Thermocouples |
| Ambient Temperature : | | | | 25 | | 2 | | | | |
| <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 | | | 7.11.2011 | | | | |
| Tested by ABB Shanghai Motors , LV Motors, Shanghai,P.R.China | | | | | | Telephone | | +86 21 54723133 | | |
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Computer print-out valid without signature.