



| Type Test Report | | | | Date of issue: 4.11.2015 | | | | | | | | | | | | | | | |
|---|--|-------------|--|---|--|--------|--|----------------------------------|--|--------------------|--|--------------------|--|----------|--|-------|--|-------|--|
| Customer: | | | | Serial No.: | | | | | | | | | | | | | | | |
| Customer ref.: | | | | Type: M3AA 132 SMJ 2 HO Product Code: 3GAA131290-_SE | | | | | | | | | | | | | | | |
| Rating: | | V | | Hz | | kW | | r/min | | A | | η [%] | | Duty | | | | | |
| 3-Motor | | 400 | | Y 50 | | 18,50 | | 2895 | | 32,90 | | 0,89 | | S1 | | | | | |
| Insul.cl.F | | 230 | | D 50 | | 18,50 | | 2895 | | 56,10 | | 0,89 | | S1 | | | | | |
| IP55 | | 460 | | Y 60 | | 18,50 | | 3505 | | 28,20 | | 0,91 | | S1 | | | | | |
| Eff class IE2 | | 50Hz : | | IE2 - 91,1%(100%) - 92,0%(75%) - 92,1%(50%) | | 60Hz : | | IE2 - 91,6%(100%) | | | | | | | | | | | |
| Resistance Line | | | | Ambient: 10,4 °C | | | | Insulation resistance at 25,7 °C | | | | Overload | | | | | | | |
| U ₁ - V ₁ | | | | 0,28420 Ω | | | | R > 2000 Mohm 1000 V | | | | Current 150 % 120s | | | | | | | |
| U ₁ - W ₁ | | | | 0,28130 Ω | | | | | | | | Torque 160 % 15s | | | | | | | |
| V ₁ - W ₁ | | | | 0,28150 Ω | | | | | | | | Speed 120 % 120s | | | | | | | |
| | | | | | | | | 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 | | 7,9 | | 0,46 | | | | 3000 | | 0,08 | | | |
| Locked rotor test | | | | 63 Y | | 50 | | 31,6 | | 1,61 | | | | 0 | | 0,47 | | | |
| Thermal test (100% load) | | 61,0 | | 400 Y | | 50 | | 32,3 | | 20,40 | | 18,50 | | 2896 | | 0,91 | | 90,70 | |
| Partial load points: | | | | | | | | | | | | | | | | | | | |
| ~75% load | | 45,3 | | 400 Y | | 50 | | 24,5 | | 15,12 | | 13,88 | | 2925 | | 0,89 | | 91,80 | |
| ~50% load | | 29,9 | | 400 Y | | 50 | | 17,4 | | 10,05 | | 9,25 | | 2952 | | 0,83 | | 92,00 | |
| ~25% load | | 14,9 | | 400 Y | | 50 | | 11,3 | | 5,17 | | 4,63 | | 2977 | | 0,66 | | 89,50 | |
| Temperature rise at rated load. | | | | [°C] | | [K] | | Method | | Measurement method | | | | | | | | | |
| Stator winding : | | | | 77,9 | | 3 | | 1 Resistance | | | | | | | | | | | |
| Frame : | | | | 26,0 | | 3 | | 2 Thermometer | | | | | | | | | | | |
| Bearing D-end : | | | | 50,5 | | 3 | | 3 Thermocouples | | | | | | | | | | | |
| Ambient Temperature : | | | | 25 | | 3 | | | | | | | | | | | | | |
| <p>These tests have been carried out on motor no. 3GE094536T0001, on date 2010-01-14 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 Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain | | | | | | | | | | | | | | | | | | | |
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Computer print-out valid without signature.