



| Type Test Report | | | | Date of issue: 2013.12.19 | | | | | | | |
|--|--|-------------|-----------|---|------------|---------|----------------|--------------------------------|------------------|--------------------|--|
| Customer: | | | | Serial No.: 3GE120331T0003 | | | | | | | |
| Customer ref.: | | | | Type: M3GP 112 MB 4 Product Code: 3GGP112442-_HB Protection type: Ex nA IIC T3 Gc Cert. No.: VTT 12 ATEX 050 X / IECEx VTT 12.0010 X | | | | | | | |
| Rating: | | | | V | Hz | kW | r/min | A | cos φ | Duty | |
| 3-Motor Insul.cl.F IP55 Eff class IE1 | | | | 415 | D 50 | 4,00 | 1433 | 8,00 | 0,81 | S1 | |
| 50Hz : IE1 - 85,7(100%) - 87(75%) - 86,7(50%) | | | | | | | | | | | |
| Resistance Line | | | | Ambient: 15,4 °C | | | | Insulation resistance at 25 °C | | Overload | |
| U ₁ - V ₁ | | | | 2,34500 Ω | | | | R > 2000 Mohm | | 1000 V | |
| U ₁ - W ₁ | | | | 2,34700 Ω | | | | | | Current 150 % 120s | |
| V ₁ - W ₁ | | | | 2,35300 Ω | | | | | | Torque 160 % 15s | |
| | | | | | | | | 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 D | 50 | 4,1 | 0,21 | | 1500 | 0,07 | | |
| Locked rotor test | | | 85,7 D | 50 | 7,8 | 0,63 | | 0 | 0,54 | | |
| Thermal test (100% load) | | 26,7 | 415 D | 50 | 8,0 | 4,67 | 4,00 | 1433 | 0,81 | 85,70 | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | | 19,7 | 415 D | 50 | 6,4 | 3,45 | 3,00 | 1452 | 0,74 | 87,00 | |
| ~50% load | | 13,0 | 415 D | 50 | 5,2 | 2,31 | 2,00 | 1470 | 0,61 | 86,70 | |
| ~25% load | | 6,4 | 415 D | 50 | 4,3 | 1,23 | 1,00 | 1486 | 0,39 | 81,30 | |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | | | |
| Stator winding : | | | | 57,6 | 3 | | | 1 Resistance | | | |
| Frame : | | | | 29,2 | 3 | | | 2 Thermometer | | | |
| Bearing D-end : | | | | 35,6 | 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 | | | | 6.3.2012 | | | |
| 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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