



| Type Test Report | | | | Date of issue: 2013.03.12 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------|-------|--|---------|----------------------------------|----------|--|-------|----|-------|---|-------|------|-----|---|----|------|------|------|----|-----|---|----|------|------|------|----|
| Customer: | | | | Serial No.: 3GH102108T7504 | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer ref.: | | | | Type: M3GP 80MD 4 Product Code: 3GGP082324-_SB Protection Type: Ex nA IIC T3 Cert. No.: VTT 12 ATEX 050X / IECEX VTT 12.0010X | | | | | | | | | | | | | | | | | | | | | | | | |
| Rating: | | | | <table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>230</td> <td>D</td> <td>50</td> <td>1430</td> <td>3,10</td> <td>0,73</td> <td>S1</td> </tr> <tr> <td>400</td> <td>Y</td> <td>50</td> <td>1430</td> <td>1,83</td> <td>0,73</td> <td>S1</td> </tr> </tbody> </table> | | | | V | Hz | kW | r/min | A | cos φ | Duty | 230 | D | 50 | 1430 | 3,10 | 0,73 | S1 | 400 | Y | 50 | 1430 | 1,83 | 0,73 | S1 |
| V | Hz | kW | r/min | A | cos φ | Duty | | | | | | | | | | | | | | | | | | | | | | |
| 230 | D | 50 | 1430 | 3,10 | 0,73 | S1 | | | | | | | | | | | | | | | | | | | | | | |
| 400 | Y | 50 | 1430 | 1,83 | 0,73 | S1 | | | | | | | | | | | | | | | | | | | | | | |
| 3-Motor Insul.cl.F IP55 Eff class IE2 | | | | 50Hz : IE2 - 81,0(100%) - 80,7(75%) - 77,3(50%) | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance Line | | | | Ambient: 21,2 °C | | Insulation resistance at 26,6 °C | | Overload | | | | | | | | | | | | | | | | | | | | |
| U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁ | | | | 13,54000 Ω 13,55000 Ω 13,55000 Ω | | R > 2000 Mohm 1000 V | | Current 150 % 120s Torque 160 % 15s 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] | η[r/min] | cos φ | η [%] | | | | | | | | | | | | | | | | | | | |
| No load test | | 400 Y | 50 | 1,21 | 0,09 | | 1500 | 0,11 | | | | | | | | | | | | | | | | | | | | |
| Locked rotor test | | 72,8 Y | 50 | 1,83 | 0,16 | | 0 | 0,69 | | | | | | | | | | | | | | | | | | | | |
| Thermal test (100% load) | 5,0 | 400 Y | 50 | 1,80 | 0,94 | 0,75 | 1435 | 0,75 | 79,40 | | | | | | | | | | | | | | | | | | | |
| Partial load points: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ~75% load | 3,7 | 400 Y | 50 | 1,55 | 0,71 | 0,56 | 1452 | 0,66 | 79,40 | | | | | | | | | | | | | | | | | | | |
| ~50% load | 2,4 | 400 Y | 50 | 1,36 | 0,49 | 0,38 | 1469 | 0,52 | 76,40 | | | | | | | | | | | | | | | | | | | |
| ~25% load | 1,2 | 400 Y | 50 | 1,23 | 0,29 | 0,19 | 1484 | 0,34 | 65,40 | | | | | | | | | | | | | | | | | | | |
| Temperature rise at rated load. | | | | °C | K | Method | | Measurement method | | | | | | | | | | | | | | | | | | | | |
| Stator winding : | | | | 25,3 | 3 | | | 1 Resistance | | | | | | | | | | | | | | | | | | | | |
| Frame : | | | | 15,4 | 3 | | | 2 Thermometer | | | | | | | | | | | | | | | | | | | | |
| Bearing D-end : | | | | 21,4 | 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 | | 7.6.2010 | | | | | | | | | | | | | | | | | | | | | | |
| 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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Computer print-out valid without signature.