



| Type Test Report | | | | Date of issue: 2013.12.20 | | | | | | | |
|--|-------------|-----------|-------|---|---------|----------------|--|--------------------------------|-------|--------------------|--|
| Customer: | | | | Serial No.: 3GH092013T7504 | | | | | | | |
| Customer ref.: | | | | Type: M3GP 132SMC 4 Product Code: 3GGP132443-_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 IE2 | | | | 415 | D 50 | 7,50 | 1455 | 14,20 | 0,82 | S1 | |
| 50Hz : IE2 - 89,1(100%) - 89,6(75%) - 88,9(50%) | | | | | | | | | | | |
| Resistance Line | | | | Ambient: 23,0 °C | | | | Insulation resistance at 26 °C | | Overload | |
| U ₁ - V ₁ | | | | 0,94100 Ω | | | | R > 2000 Mohm 1000 V | | Current 150 % 120s | |
| U ₁ - W ₁ | | | | 0,94000 Ω | | | | | | Torque 160 % 15s | |
| V ₁ - W ₁ | | | | 0,94300 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 | | 415 D | 50 | 5,1 | 0,28 | | 1500 | 0,08 | | | |
| Locked rotor test | | 103,2 D | 50 | 15,7 | 0,99 | | 0 | 0,35 | | | |
| Thermal test (100% load) | 49,2 | 415 D | 50 | 14,2 | 8,42 | 7,50 | 1456 | 0,82 | 89,10 | | |
| Partial load points: | | | | | | | | | | | |
| ~75% load | 36,6 | 415 D | 50 | 11,2 | 6,28 | 5,63 | 1468 | 0,78 | 89,60 | | |
| ~50% load | 24,2 | 415 D | 50 | 8,5 | 4,22 | 3,75 | 1479 | 0,69 | 88,90 | | |
| ~25% load | 12,0 | 415 D | 50 | 6,3 | 2,23 | 1,88 | 1489 | 0,49 | 84,10 | | |
| Temperature rise at rated load. | | | | [°C] | [K] | Method | | Measurement method | | | |
| Stator winding : | | | | 53,3 | 3 | 3 | | 1 Resistance | | | |
| Frame : | | | | 22,9 | 3 | 3 | | 2 Thermometer | | | |
| Bearing D-end : | | | | 31,7 | 3 | 3 | | 3 Thermocouples | | | |
| Ambient Temperature : | | | | 25 | 3 | 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 | | | | 1.6.2009 | | | |
| Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain | | | | | | | Telephone +34 93 728 85 00 Telefax +34 93 728 85 33 | | | | |

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