



| Test Report | | | | Date of issue: 28.8.2013 | | | | | |
|--|-------------|--|----------------------------------|---|-----------------|------------------------|--------------------|--------------------------|-------|
| | | | | Serial No.: 3GF11094429 | | | | | |
| | | | | Type: M3GP 180MLC 6 IMB3/IM1001 | | | | | |
| | | | | Product Code: 3GGP183430-ADD | | | | | |
| | | | | Protection type: Ex nA II C T3 Gc | | | | | |
| | | | | Cert. No.: LCIE 13 ATEX 1034 X IECEX LCIE 13.0047X | | | | | |
| Rating: | | | | | | | | | |
| | | V | Hz | kW | r/min | A | cos φ | Duty | |
| 3-Motor | | 690 | Y 50 | 18,5 | 975 | 23,2 | 0,74 | S1 | |
| Insul.cl.F | | 400 | D 50 | 18,5 | 975 | 40 | 0,74 | S1 | |
| IP55 | | 415 | D 50 | 18,5 | 976 | 40,3 | 0,71 | S1 | |
| Eff class IE1 | | 400 V 50Hz: IE1 - 90.1(100%) - 90.2(75%) - 88.7(50%) | | | | | | | |
| Resistance | | | Insulation resistance at 35,5 °C | | Overload | | | | |
| Line | | | Ambient: 21,5 °C | | 13000 MΩ 1000 V | | Torque 160 % 15s | | |
| U ₁ - V ₁ | | | 0,25580 Ω | | | | | | |
| U ₁ - W ₁ | | | 0,25640 Ω | | | | | | |
| V ₁ - W ₁ | | | 0,25550 Ω | | | | | | |
| | | | High-voltage test winding | | 2900 V | | 1 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 | | 400,0 | D 50 | 25,5 | 0,89 | | 998 | 0,05 | |
| Locked rotor test | | 85,3 | D 50 | 40,0 | 2,14 | | 0 | 0,36 | |
| Thermal test (100% load) | 181,2 | 400,1 | D 50 | 41,3 | 20,8 | 18,5 | 971 | 0,73 | 88,9 |
| Partial load points: | | | | | | | | | |
| ~75% load | 135,4 | 399,9 | D 50 | 34,7 | 15,5 | 13,9 | 979 | 0,65 | 89,3 |
| ~50% load | 91,4 | 400,0 | D 50 | 29,4 | 10,5 | 9,25 | 986 | 0,52 | 88,1 |
| ~25% load | 45,4 | 400,0 | D 50 | 25,7 | 5,64 | 4,62 | 993 | 0,32 | 82,1 |
| Temperature rise at rated load. | | | | °C | [K] | Method | Measurement method | | |
| Stator winding : | | | | 81,4 | 1 | 1 Resistance | | | |
| Frame : | | | | 36,5 | 2 | 2 Thermometer | | | |
| Bearing D-end : | | | | 48,1 | 2 | 3 Thermocouples | | | |
| Rotor : | | | | 97,7 | 3 | | | | |
| Ambient Temperature : | | | | 25,0 | 2 | | | | |
| 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 | | 26.2.2012 | | | | | |
| Tested by ABB Oy, Motors and Generators, Vaasa, Finland | | | | | | Telephone +358 10 2211 | | Telefax +358 10 22 47372 | |

Computer print-out valid without signature.